Colonial Pipeline Company

Jeff D. Morrison
Environmental Program Manager

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January 20, 2021

To: Dan Bowser, et al.

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

Dear Dan,

Colonial is pleased transmit the Comprehensive Site Assessment Report (CSA) regarding the above-referenced incident. The report was prepared in conjunction with Apex Engineering, PC.

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 Manager

APEX

Comprehensive Site Assessment Report
SR 2448 / Pipeline Right of Way
Incident Number 95827

Huntersville, Mecklenburg County, North Carolina 28078

January 20, 2021

Apex Job No.: CPC20126

Prepared for:

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

Prepared by:

Apex Companies, LLC
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Prepared By:

Andrew Street, CHMM, RSM
Senior Project Manager

Reviewed By:

NORTH CAROLINA LICENSED SEAL 2405 TN 1/20/21 GEOLOGIST THOMAS EDWARD NAUMANN

Tom Naumann, PG
Senior Scientist
NC License No. 2405

Matt Gorman, PE
Program Manager
NC License No. 041588

SITE INFORMATION

1. Site Identification

- Date of Report: January 20, 2021
- Facility I.D.: NA Incident Number: 95827 Site Rank: High
- Site Name: Colonial Pipeline Company – 2020-L1-SR2448
- Site Street Address: 14511 Huntersville-Concord Road
- City/Town: Huntersville Zip Code: 28078 County: Mecklenburg County
- Description of Geographical Data Point: 350 Feet Northeast of SR 2448/CPC ROW Crossing
- Location Method: GPS
- Latitude: 35.414106 Longitude: -80.806185

2. Information about Contacts Associated with the Release

- Owner: Colonial Pipeline Company
  Address: 1185 Sanctuary Parkway, Suite 100, Alpharetta, GA Telephone: 678-762-2200
- Operator: Colonial Pipeline Company
  Address: 1185 Sanctuary Parkway, Suite 100, Alpharetta, GA Telephone: 678-762-2200
- Property Owner/Occupant: Mecklenburg County
  Address: 600 E. 4th Street, 11th Floor, Charlotte, NC Telephone: 704-336-3000
- Consultant/Contractor: Apex Companies, LLC
  Address: 5900 Business Park, Ste. 5900-O, Charlotte, NC 28269 Telephone: 704-799-6390
- Analytical Laboratory: Pace Analytical Services, LLC State Certification No.:375
  Address: 9800 Kincey Ave. Suite 100, Huntersville, NC 28078 Telephone: 704-875-9092

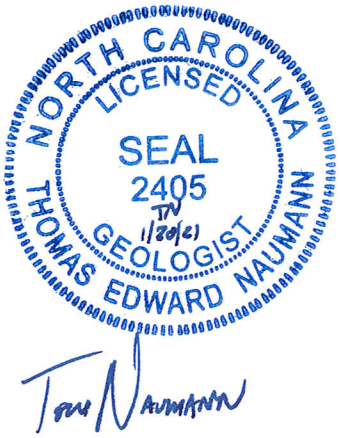
3. Information about Release

- Date Discovered: 8/14/2020
- Estimated Quantity of Release: 1.2 MM gallons (28,571 barrels)*
- Cause of Release: Under Investigation
- Source of Release: Line 1
- Sizes and contents of UST(s) or other containment from which the release occurred: N/A

* Estimated release volume as derived by TRC Environmental Corporation using the American Petroleum Institute LNAPL Distribution and Recovery Model (LDRM). Site-specific values for soil properties, fluid characteristics, and hydraulic conductivity, along with apparent product thickness gauging data were used as input to the LDRM. The site-specific data was provided to the NCDEQ under separate cover.

4. Certification

Apex Companies, LLC (dba Maryland Apex Engineering, PC) is licensed to practice geology and engineering in North Carolina. The geology certification number of the company is C-519. I, Tom Nauman, PG, a Licensed Geologist for Apex Companies, LLC (dba Apex Engineering, PC; Apex) do certify that the information contained in this report is correct and accurate to the best of my knowledge. Further, I hereby attest that certain emergency response information documented in this report was collected by third parties that were not under contract to Apex and/or were not working under my direction or supervision.



EXECUTIVE SUMMARY

Source Information

Incident Number	95827
Date Discovered:	August 14, 2020
Petroleum Product Released:	Gasoline
Source of Release:	Line 1
Volume of Release:	1.2 MM gallons (28,571 barrels)

Description of Incident Number 95827

On August 14, 2020, Colonial Pipeline Company (CPC) and local emergency response agencies were notified of a suspected gasoline release within the CPC right of way (ROW) on the Oehler Nature Preserve near the intersection of Huntersville-Concord Road (Site). Line excavation and inspection in the release area confirmed the source of the release as coming from CPC Line 1 and the released product was confirmed to be gasoline. The release was promptly controlled, and CPC immediately initiated soil excavation and free product recovery efforts.

Hydrogeological Investigation Results (Release Area)

Depth to Groundwater:	Variable - approximately seven to 56 feet below ground surface
Groundwater Flow Direction:	Predominantly north and south with a radial flow component
Horizontal Gradient:	0.038 feet per foot to the north, 0.031 feet per foot to the south
Average Hydraulic Conductivity:	0.42 feet per day to the north, 0.80 feet per day to the south
Groundwater Flow Velocity:	30.66 feet per year to the north, 47.64 feet per year to the south
Depth to Bedrock:	Variable - 20 feet to over 100 feet

Sampling and Investigation Results

Maximum Groundwater Contaminant Concentrations Detected in Monitoring Wells - 2L Exceedances Only(1):

Compound	Maximum Concentration(2) (µg/L)	NC 2L Standard (µg/L)	Gross Contaminant Level (µg/L)
Lead(1)	264	15	15,000
Benzene	4,670	1	5,000
Bromodichloromethane(1)	3.7	0.6	NE
Chloroform	403	70	70,000
Diisopropyl ether	587	70	NE
Dibromochloromethane(1)	0.95	0.4	400
Methyl tert-butyl ether	392	20	20,000
Naphthalene	111	6	6,000
Tetrachloroethene(1)	0.93	0.7	700
1,2,4-Trimethylbenzene	450	400	28,500
Total Xylenes	3,690	500	85,500
Toluene	6,590	600	260,000
C5-C8 Aliphatics	25,900	400	NE

(1) Lead, bromodichloromethane, chloroform, dibromochloromethane, and tetrachloroethene are not attributed to NCDEQ Incident Number 95827
(2) Maximum Concentrations are from the January 2021 data set.
NE Not Established
µg/L micrograms per liter

Receptor Information

Water Supply Wells

Water Supply Wells Present Within 1,500 Foot Search Radius: Eight

Availability of Public Water

Municipal water is available at the Site and in the surrounding area. Select residents within the 1,500 foot radius search radius have elected to remain on private water supply wells.

Surface Water Bodies

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 North Carolina Department of Environmental Quality, Division of Water Quality as Class C water bodies. A groundwater seep and ephemeral stream are located approximately 1,200 feet southeast of the release area.

Surrounding Land Use

The area within a 1,500 foot radius of the Site is a mixture of low density residential properties, agricultural properties, and wooded land.

Risk Classification

The risk classification for the Site is high based on the presence of multiple water supply wells within 1,000 feet of the release area and due to the contaminant mass in the subsurface.

Risk Reduction Goals

The risk classification for the Site could be eligible to be re-classified from high to intermediate if the free product mass is reduced and all water supply wells within 1,000 feet of the boundaries of the groundwater plume exceeding 2L Groundwater Quality Standards are abandoned.

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1.0 INTRODUCTION

A gasoline release was discovered on August 14, 2020 in an area approximately 350 feet northeast of where the Colonial Pipeline Company (CPC) pipelines cross Huntersville-Concord Road (State Road [SR] 2448). The release occurred from the CPC's Line 1. The release is referred to herein as the 2020-L1-SR2448 Release and/or Incident No. 95827. A Site Location Map is provided as **Figure 1** and a Site Plan is provided as **Figure 2**. CPC promptly commenced abatement and corrective action measures in addition to an investigation of the source of the release. This report summarizes the incident response and assessment activities associated with the 2020-L1-SR2448 Release. Apex Companies, LLC (dba Apex Engineering, P.C.; Apex) prepared this Comprehensive Site Assessment (CSA) Report on behalf of CPC for submittal to North Carolina Department of Environmental Quality (NCDEQ).

2.0 SITE HISTORY AND CHARACTERIZATION

2.1 Description of Incident Number 95827

On August 14, 2020, CPC and local emergency response agencies were notified of a suspected gasoline release within the CPC right of way (ROW) on the Oehler Nature Preserve near the intersection of SR 2448 (**Figure 2**). Line excavation and inspection in the release area confirmed the source of the release as coming from CPC Line 1 and the released product was confirmed to be gasoline. The release was controlled expediently, and CPC immediately initiated soil excavation and free product recovery efforts.

2.2 Initial Response and Abatement Actions

CPC and local emergency response agencies were notified of suspected petroleum product surfacing within the CPC right of way on the Oehler Nature Preserve near the intersection of SR 2448 (**Figure 2**) on August 14, 2020 at 18:20. Colonial personnel confirmed a product release at 18:42, believed to be gasoline. Colonial personnel contacted the CPC Control Center in Alpharetta, Georgia to provide notification of the visible release and the Control Center initiated shutdown of Lines 1 and 2 at 18:43. The lines were blocked by closing valves upstream of the release location at CPC Charlotte Delivery Facility and downstream of the release location at CPC Kannapolis Station. Notifications were made to Mecklenburg County, the United States Environmental Protection Agency (EPA), the NCDEQ and the Pipeline and Hazardous Material Safety Administration (PHMSA). CPC mobilized internal and emergency response contractor resources to the Site and established an Incident Command Post to support the response activities. On August 14, 2020, at approximately 24:00, line excavation and inspection confirmed the release was gasoline from CPC's Line 1. The release was promptly controlled, and free product recovery efforts were initiated. CPC recovered approximately 90,930 gallons of free product from the release source location during initial response activities. As outlined in **Section 8.0**, recovery efforts have been ongoing since the release.

2.3 Excavation of Contaminated Soil

Approximately 800 tons of petroleum-impacted soil were excavated beginning on August 14, 2020 during efforts to expose Line 1 and Line 2 and to identify the release location. An excavation measuring approximately 35 feet by 40 feet by 10 feet deep was completed to expose Lines 1 and 2 at the release location and to install a reinforcing, steel sleeve over the damaged section of pipe. Based on soil sample results and the tonnage of soil removed, an estimated 1,257 gallons of product was recovered through the initial soil excavation. Additional product recovery was completed through source area soil removal activities associated with the Line 1 and Line 2 inspection, repair, and recoating activities. Excavated soil was transported to the Charlotte Motor Speedway Landfill located in Concord, North Carolina and operated by Republic Services (Permit No. 1304-MSWLF-1992). Copies of waste manifests for the initial soil excavation were provided in the Initial Abatement Report, and copies of the soil manifests for the Line 1 and Line 2 inspection, repair, and recoat activities will be provided under separate cover.

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 3** and summarized in **Table 1**. Copies of laboratory analytical reports are provided in **Appendix A**. Residual petroleum soil impacts

exceeding NCDEQ Maximum Soil Contaminant Concentrations (MSCCs) will be addressed as part of a Corrective Action Plan (CAP) for Incident No. 95827. Line 2 confirmation samples were collected at Line 2 following completion of excavation and inspection activities and prior to backfilling. Line 2 soil sampling results will be presented in the February 2021 Monthly Monitoring Report.

3.0 RECEPTOR INFORMATION

Under the NCDEQ Risk Based Corrective Action 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 (WSWs). The risk classification for the Site is 'high risk' due to the presence of multiple WSWs within 1,000 feet of the release (**Figure 4**). Groundwater remediation goals for sites classified as high risk are the 2L Groundwater Quality Standards.

3.1 Public Water Supplies

Properties within a 1,500 foot radius of the release area obtain potable water from public water supply or private WSWs (**Figure 4**). Water services for the Town of Huntersville are provided by the City of Charlotte. Field reconnaissance and the Mecklenburg County geographic information systems database were utilized to evaluate for the presence of WSWs within a 1,500-foot radius of the release area, and to evaluate if each property in the search area was connected to the public water supply.

The primary source of water for Mecklenburg County is Mountain Island Lake, an impoundment of the Catawba River. The site is not located within a water supply watershed. No public water supply sources were identified within a 1,500-foot radius of the release source area.

3.2 Water Supply Wells

Thirteen WSWs have been identified within a 1,500-foot radius of the release area. Four wells have been abandoned since the release occurred. The WSW located at 14015 Asbury Chapel Road has been taken out of service and will be utilized as a deep groundwater monitoring well. Eight WSWs, including one inactive dug well and one inactive well with an inoperable pump remain within 1,500-foot radius of the release source area. Well abandonment records not previously provided to NCDEQ are included in **Appendix B**.

3.3 Surface Water

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, meaning that they are protected for non-drinking water purposes such as biological integrity, fishing, and infrequent secondary recreational purposes (i.e., wading). 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. The North and South Prong Clarke Creek, respectively, and the unnamed ephemeral tributary to South Prong Clarke Creek are shown on **Figure 4**.

3.4 Wellhead Protection Areas

There are currently no wellhead protection areas as defined by 42 USC 300h-7(e) in the vicinity of the Site.

3.5 Subsurface Structures

Line 1 and Line 2 were identified as potential utility pathways for vapor migration. During the line inspection and recoat activities, soil around the lines was excavated north and south of the release area and replaced with clean backfill. Utilities located along Huntersville-Concord Road include a water line, a natural gas line, and a telecommunication line at estimated depths of approximately three feet. Depth to water in proximity to the utility lines is over 30 feet.

4.0 LAND USE SURVEY

The area within a 1,500 foot radius of the Site is a mixture of low density residential properties, agricultural properties and wooded land. The release occurred on the Oehler Nature Preserve. Properties within the survey area are zoned for residential single family and agricultural use.

5.0 GEOLOGY AND HYDROGEOLOGY

5.1 Regional Geology

Mecklenburg County is located within the Charlotte Belt of the Piedmont physiographic province. The Piedmont province is characterized by rolling hills and moderately steep valleys formed by stream erosion of upland areas. Average relief is less than 100 to 150 feet between the upland areas and the stream valleys.

The regional geology is described in the context of several lithotectonic belts of the Piedmont between the Blue Ridge to the west and the Coastal Plain and Triassic Basin to the east. The Charlotte Belt is primarily composed of plutonic rocks with some areas of metavolcanics rocks (Goldsmith, Milton, & Horton Jr., 1988). Rocks within the Belt vary in age and degree of metamorphism. Metasedimentary rocks are uncommon. The rocks of this portion of the Charlotte Belt are part of a granite/diorite complex, in which the diorite country rock is inter-penetrated by the granite (Legrand & Mundorff, 1952). The quartz diorite unit is described as containing quartz diorite and varieties of gneiss (Wilson, 1983). It should be noted that the unit described as quartz diorite may, due to the origin of the unit with multiple intrusions of various composition and mapping limitations where outcrops are uncommon, contain areas of tonalite, granodiorite, and granite; as well as metamorphic rocks such as gneiss and schist, but this is referred to herein as quartz diorite for consistency. The quartz diorite bedrock is covered by a mantle of saprolite.

Saprolite, the product of in-place chemical weathering of crystalline bedrock, is a general term used to describe a thoroughly decomposed crystalline rock and is described in published data (Legrand H. E., 2004; Wilson, 1983) in this area. Quartz-rich granitic rocks generally weather to a sandy saprolite and more feldspathic plutonic rocks, such as diorite, generally weather to a clayey saprolite. Saprolite often retains some of the original rock fabric, such as foliation and mineral grain differentiation.

5.2 Regional Hydrogeology

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. Recharge of the surficial water table occurs through infiltration by rainfall. However, infiltration through fine-grained surficial soil is limited and a large component of rainfall is lost to runoff. 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.

Generally, groundwater flow in a fractured crystalline bedrock system with a saprolite overburden is characterized by higher storage and lower conductivity (or higher porosity and lower permeability) in the overburden and higher conductivity and lower storage (or higher permeability and lower porosity) in the fractured bedrock. Thus, groundwater stored in the saprolite is the primary source of recharge of the underlying fractured bedrock aquifer. Legrand (2004) describes two components of groundwater flow into this type of system: (1) flow through the regolith parallel to the bedrock surface and (2) flow into the bedrock via interconnected fractures where they intersect the regolith. Discharge generally occurs at springs or seeps or as basal flow into bodies of water (including perennial and ephemeral streams). This flow along the base of the regolith in the transitional zone of saprolite and weathered rock and has been described as the most permeable part of the groundwater system (Harned & Daniel, III, 1989; Schaeffer, 2018) and the primary lateral transmitter of groundwater and groundwater contaminants (Harned & Daniel, III) in similar Piedmont groundwater systems. This transitional zone is the result of less advanced weathering than the overlying regolith, causing extensive fracturing along the bedrock surface. Porosity within this zone is moderate relative to the overlying saprolite and underlying bedrock, but permeability is relatively higher than both. Thus, there are often three distinct hydrostratigraphic units: the saprolite, the transition zone, and the bedrock.

5.3 Site Geology

Based on a review of the 1985 Geologic Map of North Carolina (NCDNR), the Site is underlain by metamorphosed quartz diorite. This unit is described as foliated to massive. Based on a review of the NRCS Soil Survey, the primary mapped soil units are the Cecil sandy clay loam, the Enon sandy loam, and the Wilkes loam. All of these are saprolitic and derived from the weathering of granites or diorites or metamorphosed varieties (NRCS, 2020).

A review of soil boring logs for the Site indicates a saprolite overburden throughout the study area with thicknesses varying from 20 feet to over 100 feet. This soil is generally described as clayey near the surface, underlain primarily by a thick sequence of silty clay and silty sand, and with greater amounts of very fine to medium silty sand observed at times with weathered bedrock fragments in the transitional bedrock interface. Soil in the clayey stratum are nearly always red or reddish, transitioning to brown and gray in the silty stratum. Soils are generally micaceous, particularly in the silty stratum and pyrite was observed more often near the bedrock interface or in the weathered rock. The phaneritic texture of the underlying rock and gneissic banding is apparent in the lower two saprolite strata. There is a general lack of schistosity, but foliation was observed infrequently. The study area is generally undisturbed with the exception of the pipeline and Huntersville-Concord Road. Thus, the bedrock overburden can be described as saprolite entirely and fill is generally not present except as pipeline or other utility or road sub-grade backfill. A cross section reference map, along with A-A' and B-B' cross sections are provided as **Appendix C**.

Based on approximate depths to bedrock as noted during drilling using sonic and hollow-stem auger methods, and electrical resistivity survey results submitted under separate cover, depths to bedrock indicate that bedrock is at its highest elevation in the immediate area of the release extending to the south across Huntersville-Concord Road. Bedrock depths roughly descend in all directions from the immediate release area.

5.4 Site Hydrogeology

The recovery well pumping system was shut down for approximately 24 hours on December 26, 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 monitoring well and recovery 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**.

Depth to groundwater at the site ranges from less than 10 feet below ground surface at the north limit of the study area, where the ground surface lies at lower elevations, to over 50 feet below ground surface in the vicinity of MW-41 and MW-55, where the competent bedrock is encountered at greater depths. The water table occurs primarily in the saprolite unit; however, bedrock rises locally above the water table in some areas of the Site. The potentiometric map indicates that groundwater elevations are highest proximal to the release area flowing north and south in a radial pattern. The calculated water table gradient to the north, based on the December 26, 2020 gauging event, is approximately 0.038 feet/foot as measured perpendicular to flow from the 700-foot contour line north of RW-17 to the 672-foot contour line near MW-56. The calculated water table gradient to the south, based on the December 26, 2020 gauging event, is approximately 0.031 feet/foot as measured perpendicular to flow from the 702-foot contour line north of RW-10 to the 680-foot contour line near MW-62.

In-situ rising head slug tests were performed by AECOM at 16 monitoring wells encompassing the release area. Two replicate in-situ rising head tests were performed at each of the sixteen monitoring wells evaluated. The average hydraulic conductivity value for each well was calculated. A summary of slug test data is provided as **Table 4**. Slug test data is provided as **Appendix D**. From the release area to the north, hydraulic conductivities at each well tested ranged from of 0.22 to 0.84 feet per day (ft./day). From the release area to the south, hydraulic conductivities at each well tested ranged from of 0.31 to 2.32 ft./day. Wells located north and south of the release source area were grouped to evaluate average hydraulic conductivities in both groundwater flow directions. These data yield an average hydraulic conductivity for the surficial aquifer of 0.42 ft./day to the north and 0.80 ft./day to the south. To estimate the average groundwater flow velocity in the surficial aquifer north and south of the release area, a modified Darcian flow equation were used: Velocity (V) = Hydraulic Conductivity (K) * Horizontal Gradient (I) / Estimated Effective Porosity (n). Based on an average hydraulic conductivity (K) of 0.42 ft./day, an average hydraulic gradient of 0.038 feet/foot, and an estimated effective porosity (n) of 19 percent for saprolite and partially weathered bedrock, the average groundwater velocity (v) to the north of the release area is estimated to be 0.084 ft./day or 30.7 feet per

year. Based on an average hydraulic conductivity (K) of 0.80 ft./day, an average hydraulic gradient of 0.031 feet/foot, and an estimated effective porosity (n) of 19 percent for saprolite and partially weathered bedrock, the average groundwater velocity (v) to the south of the release area is estimated to be 0.130 ft./day or 47.6 feet per year.

6.0 COMPREHENSIVE SITE ASSESSMENT ACTIVITIES

6.1 Soil Assessment Activities

Soil assessment activities were completed during monitoring well and recovery well installation activities. The objective of the work was to delineate petroleum impacts in soil to concentrations below NCDEQ MSCCs. Soil borings were advanced with either a Geoprobe® direct-push drill rig, a sonic drill rig, or utilizing split spoons. The Geoprobe® direct-push drill rig was operated by S&ME, Inc. under the direction of AECOM. The sonic drill rigs were operated by Walker-Hill Environmental and Cascade Drilling LP under the direction of Apex. Split spoon soil sampling was completed by Parratt-Wolff under the direction of Apex. Soil cores were retrieved, and samples were collected from target intervals, placed in airtight containers and allowed to equilibrate for approximately 15 minutes before measuring VOC headspace readings with a photoionization detector (PID). The samples exhibiting the highest headspace readings were typically selected for chemical analysis unless free product was present. In cases where there were no significant PID measurements in a boring, the depth interval corresponding to the terminus of the unsaturated zone was typically selected for chemical analysis.

A total of 111 soil samples were selected from 76 borings and submitted to Pace for laboratory analysis of the following chemical specific parameters in accordance with NCDEQ requirements:

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

Results of the chemical specific laboratory analysis are summarized in **Table 5** and on **Figure 7**. Laboratory analytical reports are provided in **Appendix A**.

6.2 Groundwater Assessment Activities

Between August 27, 2020 through January 13, 2021, 81 monitoring wells were installed within and along the presumed outer perimeter of the release area. A second round of monitoring well installation was initiated on October 30, 2020 with the objective of completing 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. Geophysical borehole logging was performed by Marshall Miller and Associates, Inc. The results of the geophysical borehole logging were utilized to identify the primary water bearing zones within the bedrock unit for isolation and sampling. Groundwater samples were retrieved from the identified zones of interest utilizing packer sampling techniques. Operation of packers was performed by Parrat-Wolff under the direction of Apex. 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. Boring logs generated after this CSA Report will be provided with the February 2021 monthly submittal.

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

Each monitoring well present and without measurable free product at the time of the groundwater monitoring event for this reporting period was sampled between January 4 - January 13, 2021. Prior to collecting groundwater

samples from shallow monitoring wells, 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. Deep monitoring wells were sampled by evacuating water in the packer interval, monitoring recharge, and subsequent low flow sampling. 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 E**. Detections of analyzed constituents in monitoring wells are depicted on **Figure 8**. Isoconcentration maps for benzene, diisopropyl ether, methyl-tert butyl ether, naphthalene, toluene, total xylenes, and C_5-C_8 Aliphatics are provided as **Figure 9** through **Figure 15**, respectively. Analytical results are summarized in **Table 6** and copies of the laboratory reports are provided in **Appendix A**. Detections of lead, bromodichloromethane, chloroform, dibromochloromethane, and tetrachloroethene (PCE) are not attributed to Incident Number 95827. As shown on **Figure 9** through **Figure 15**, the horizontal and vertical extent of petroleum impacts is delineated to 2L Groundwater Quality Standards, based on the January 2021 groundwater sampling results.

Weekly WSW sampling was completed by Apex during the reporting period. WSW samples were collected in laboratory supplied bottle ware, placed on ice, and transported, via standard chain-of-custody protocol, to Pace. Samples were analyzed for the presence of VOCs by EPA Method 6200, VPH by the MADEP Method, and lead by EPA method 6010D. WSW sampling results are depicted on **Figure 16** and summarized in **Table 7**. Copies of the laboratory reports are provided in **Appendix A**.

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

7.0 SURFACE WATER INVESTIGATION ACTIVITIES AND RESULTS

Surface water sampling was conducted by Environmental Planning Specialists, Inc. (EPS) at seven locations (SW-1 through SW-7) subsequent to the November Monthly Monitoring Report on December 17, 2020, December 30, 2020, and January 14, 2021. 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 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 F**.

8.0 REMEDIATION ACTIVITIES SUMMARY

8.1 Air Sparge and Soil Vapor Extraction System

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

8.2 Free Product Recovery Activities

A total of 50 vacuum enhanced recovery wells have been installed within the release area. Pneumatic recovery pumps have been placed in the wells and vacuum is applied to the wells to enhance recovery. As of January 16, 2021, approximately 569,003 gallons of gasoline free product and approximately 217,959 gallons of petroleum contact water have been recovered from the recovery well network. Total product recovery during the initial soil excavation (1,257 gallons), the emergency response activities (90,930 gallons), soil vapor recovery (500 gallons), and from the recovery well network is approximately 661,690 gallons.

Recovered free product was transported for reprocessing to the Midwest Gas Company located in Columbus, Ohio. Petroleum contact water has been sent to Aaron Oil Company, Inc. located in Saraland, Alabama, Allied Waste Services of Birmingham, Alabama, and Heritage Crystal-Clean of Concord, North Carolina 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.

9.0 CONCLUSIONS

A total of 167 wells (81 monitoring wells, 50 recovery wells, 11 hydraulic control wells, and 25 air sparge system wells) were installed at the Site between August 27, 2020 and January 16, 2021. The horizontal and vertical extent of petroleum impacted soil has been delineated (**Figure 7**). The extent of the free product plume has also been delineated by the monitoring and recovery well network. Detections of lead, bromodichloromethane, chloroform, dibromochloromethane, and PCE are not attributed to Incident Number 95827. **Figure 9** through **Figure 15**, depict the horizontal and vertical extent of dissolved phase petroleum impacts, based on the January 2021 groundwater sampling results. The horizontal and vertical extent of free product and dissolved phase petroleum impacts to groundwater have been delineated based on the January 2021 groundwater sampling results. Weekly WSW sampling and bi-weekly surface water sampling continue to show no petroleum constituents. The recommended action for the Site is the preparation of a CAP to address residual petroleum impacts to soil and groundwater associated with Incident Number 95827. 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 CAP will be submitted to the NCDEQ within the agreed to schedule following approval of this CSA. Copies of Public Notice Letters are provided as **Appendix G**.

10.0 REFERENCES

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FIGURES

Data Sources: US Geological Survey (Elevation Products)

Checked By:	AS
Created By:	JC
Scale:	1 " = 750 FT
Date/Time:	1/15/2021; 08:29
Project No.:	CPC20126

Site Location Map

Colonial Pipeline Company

2020-L1-SR2448

Huntersville, North Carolina

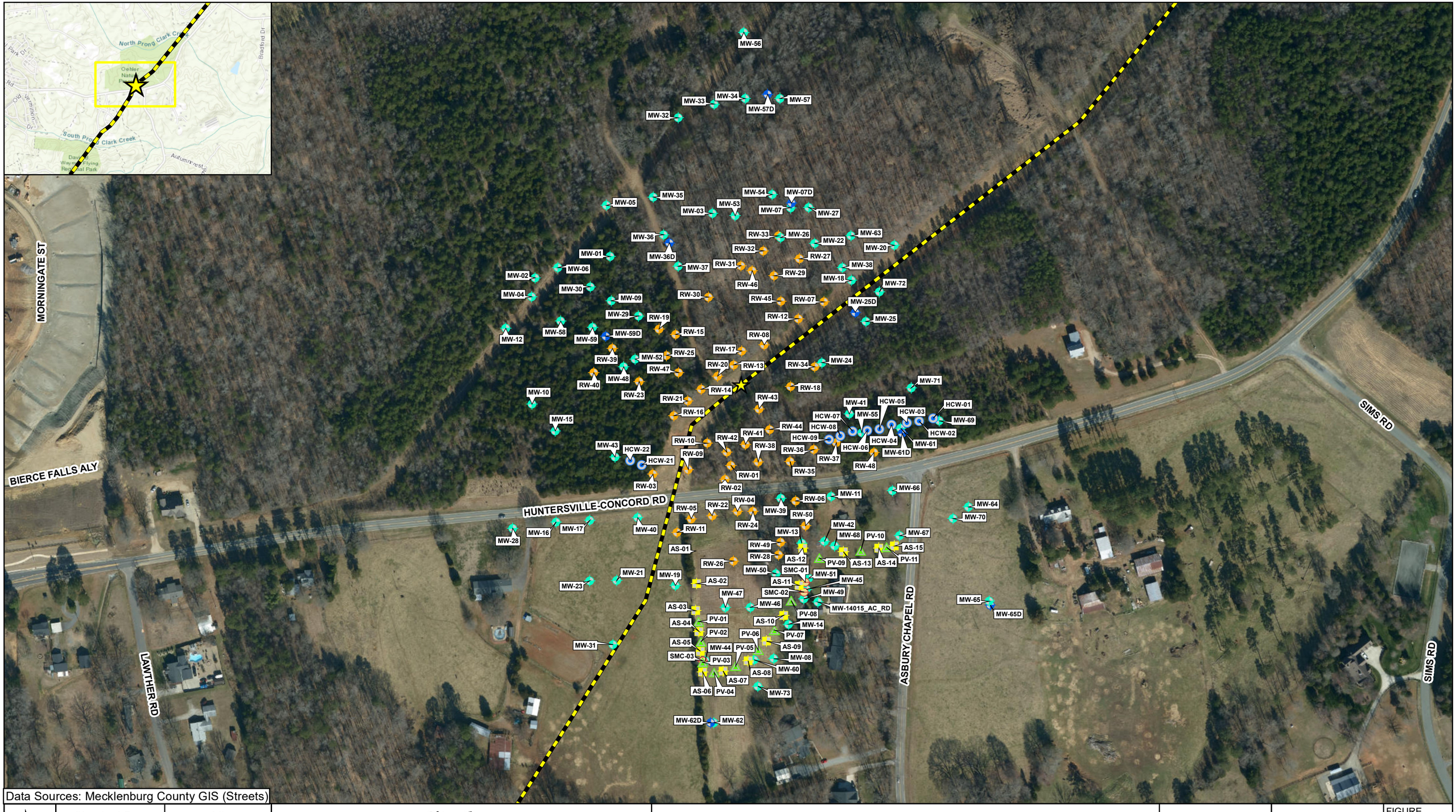
0 400 800 1,600 2,400 Feet

Figure

1

Release Site

APEX



Data Sources: Mecklenburg County GIS (Streets)

Checked By:	AS
Created By:	JC
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Date/Time:	1/19/2021; 14:17
Project No.:	CPC20126

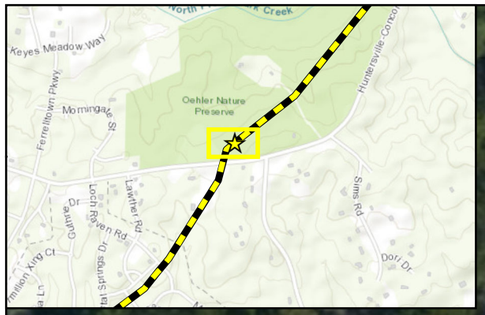
Site Plan
Colonial Pipeline Company
2020-L1-SR2448
Huntersville, North Carolina

0 130 260 520 780 Feet

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

APEX

FIGURE 2



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)

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Date/Time:	1/19/2021; 22:54
Project No.:	CPC20126

Line 01 Excavation Soil Sampling Results
Colonial Pipeline Company
2020-L1-SR2448
Huntersville, North Carolina

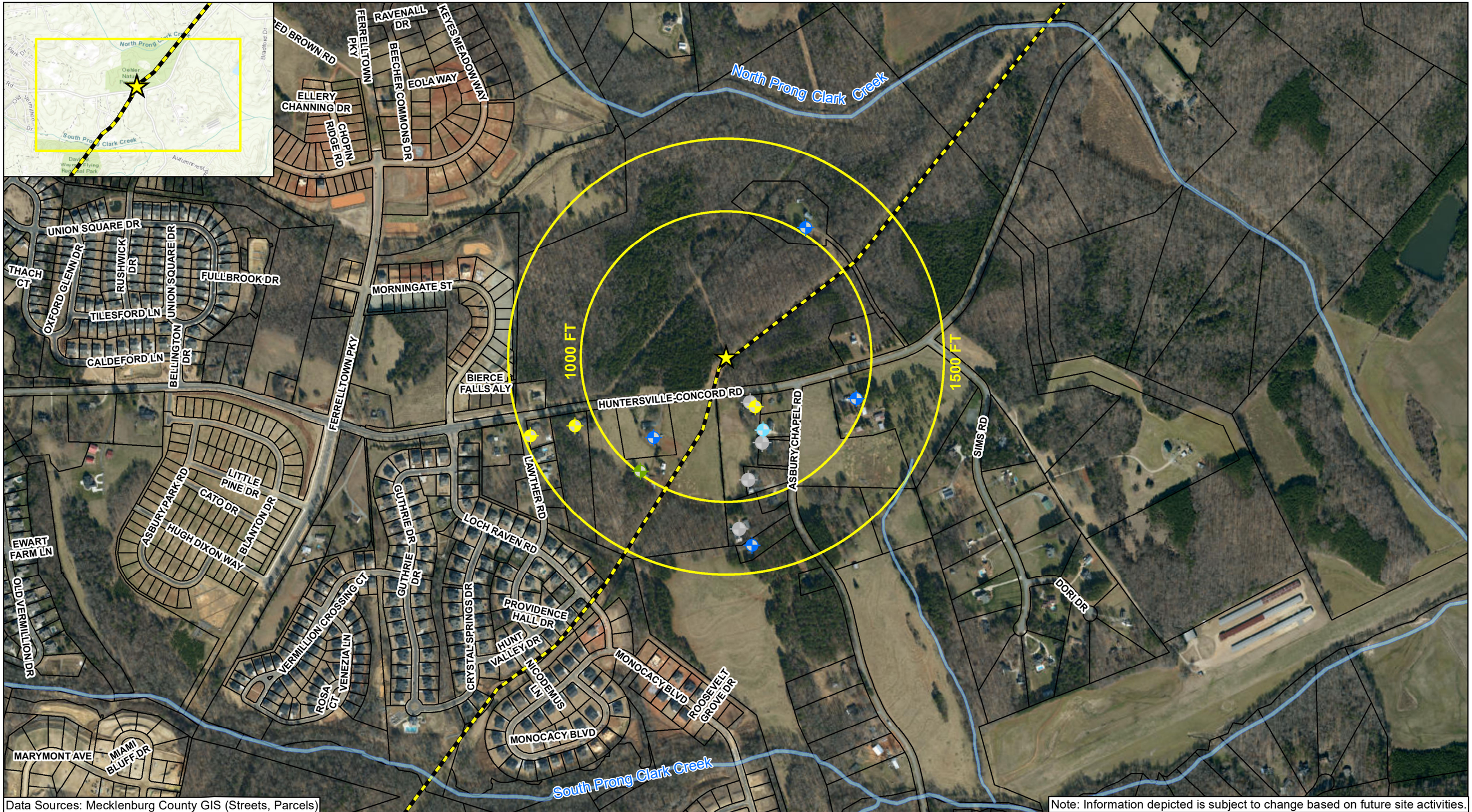
0 20 40 80 120 Feet

Release Site
Pipeline
Below Maximum Soil Contaminant Concentration Levels (MSCCs) for all compounds and scenarios
Exceeds Maximum Soil Contaminant Concentration Levels (MSCCs) for any individual compound or scenario

Note: See Table 1 for detailed results.

APEX

FIGURE 3



Data Sources: Mecklenburg County GIS (Streets, Parcels)

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

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Project No.:	CPC20126

Potential Receptor Map
Colonial Pipeline Company
2020-L1-SR2448
Huntersville, North Carolina

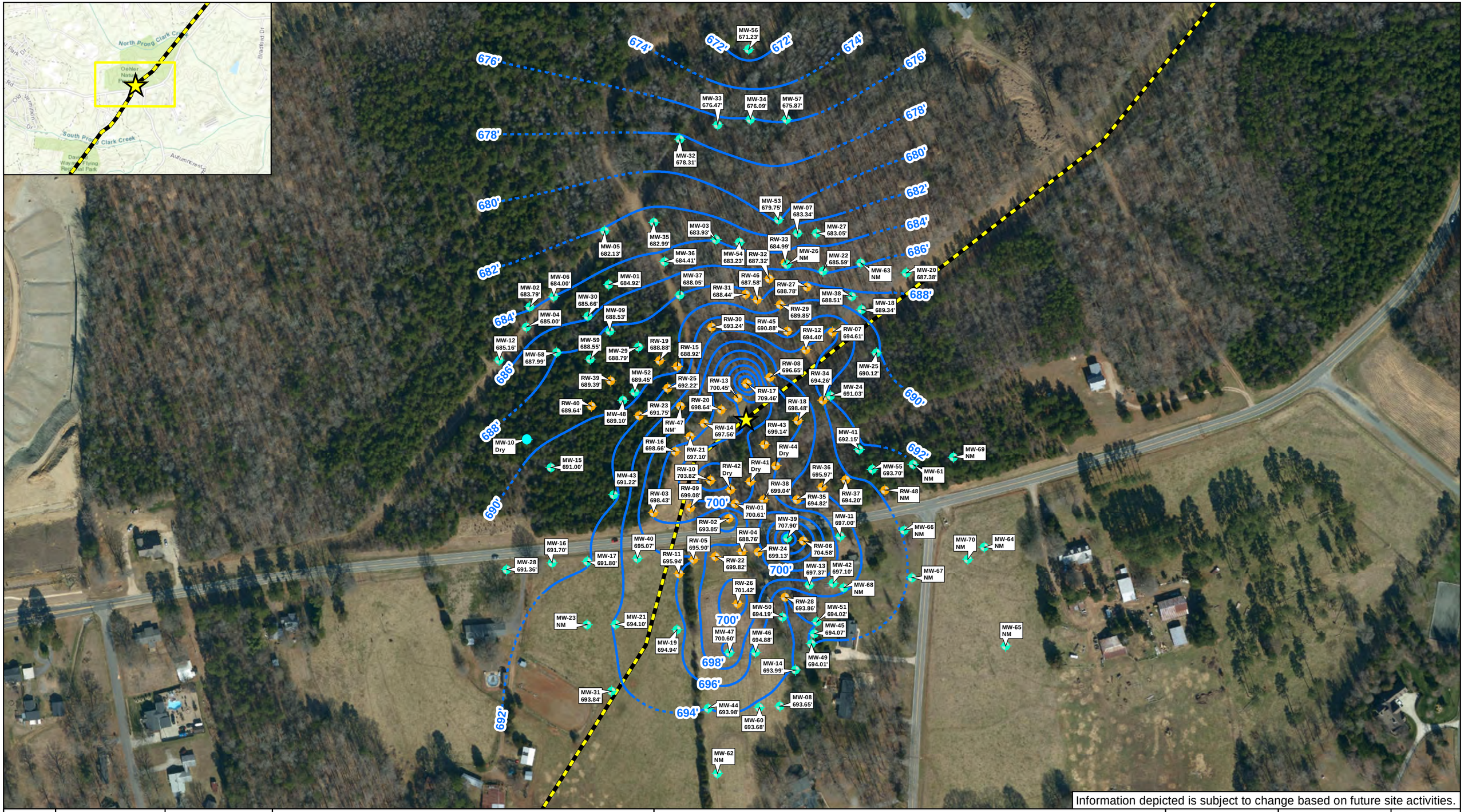
0 375 750 1,500 2,250 Feet

Release Site
Pipeline
Water Supply Well (Potable Use)
Water Supply Well (Non-Potable Use)
Water Supply Well (Abandoned)
Water Supply Well (Inactive Use)
Well Converted to Deep Monitoring Well
Parcel Boundaries

Note: Only wells within 1,500 feet of release source area are shown.

APEX

FIGURE 4



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

Checked By:	AS
Created By:	JC
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Date/Time:	1/20/2021; 01:23
Project No.:	CPC20126

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

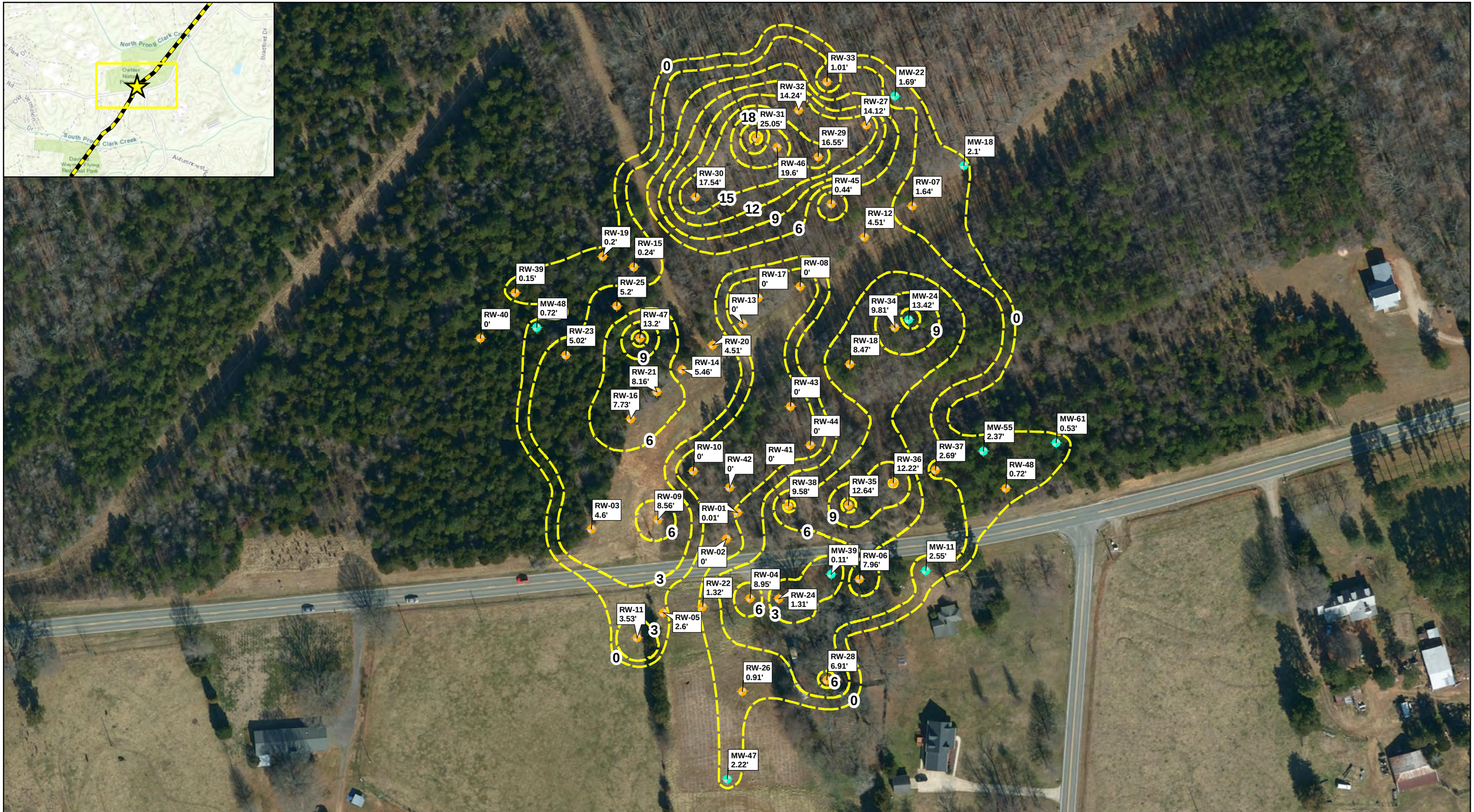
0 125 250 500 750 Feet

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

NOTES:
Contours based on monitoring well gauging data collected on 12/26/2020;
Groundwater elevation measurements shown in feet amsl;
The following locations were not included to create this potentiometric surface map, denoted as NM (not measured) unless otherwise specified: All Deep MWs, MW-10 (Dry), MW-23 (Not Surveyed), MW-26 (Pump in Well), MW-61 through MW-73 (Not Surveyed), RW-41 (Dry), RW-42 (Dry), RW-44 (Dry), RW-47 (Not Surveyed), RW-48 (Not Surveyed)
Contours interpolated using ArcMap Spatial Analyst (Kriging)

APEX

FIGURE 5



Checked By:	AS
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Date/Time:	1/20/2021; 17:32
Project No.:	CPC20126

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

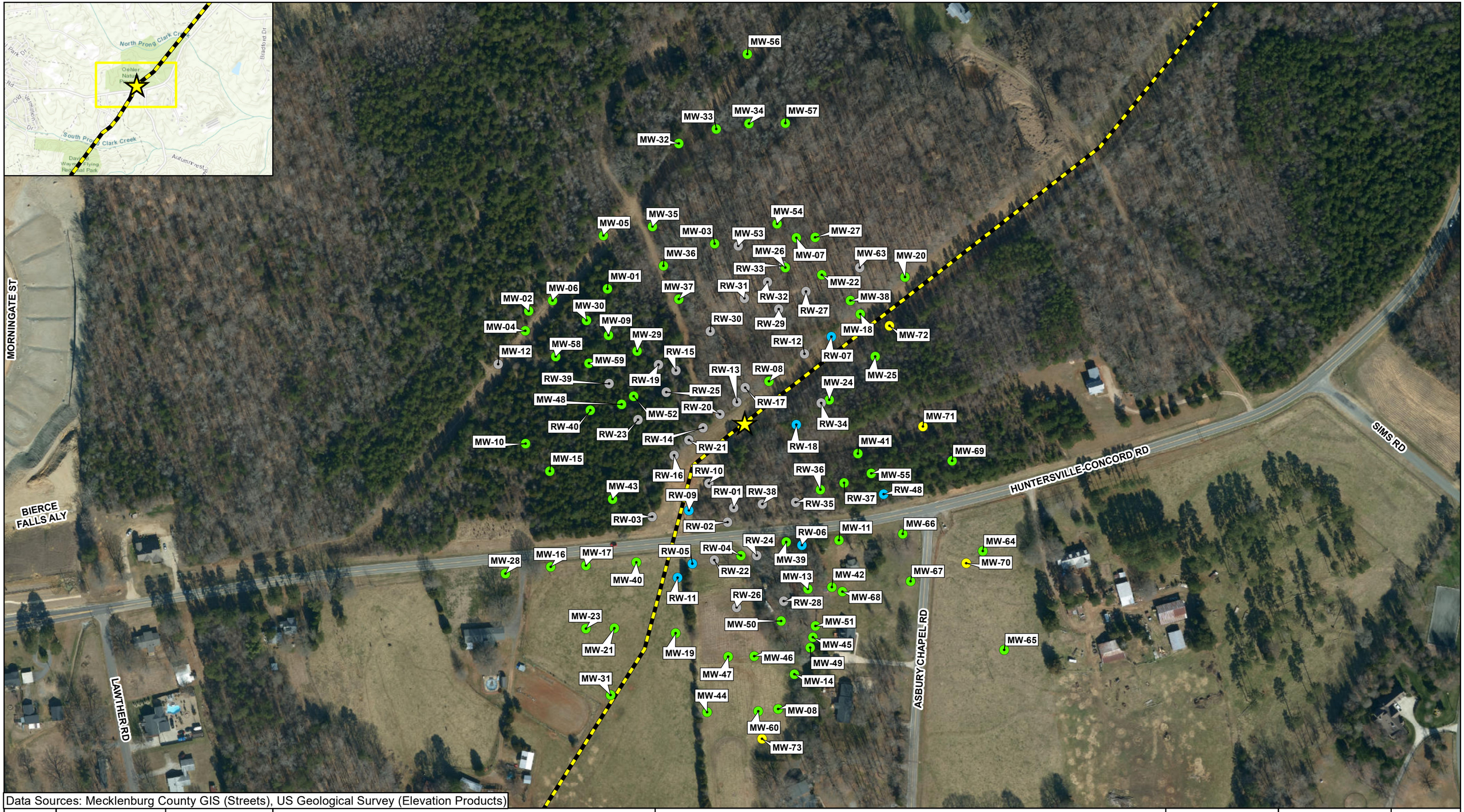
0 70 140 280 420 Feet

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

NOTES:
Free Product Thickness determined from apparent thickness (ft) in wells only;
Product thickness measurements shown in feet;
All gauging measurements taken December 26, 2020;
RW-26 (Pump in Well), MW-71 through MW-73 (not surveyed) were 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



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

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Scale:	1 " = 200 FT
Date/Time:	1/19/2021; 23:02
Project No.:	CPC20126

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

0 125 250 500 750 Feet

Release Site

Pipeline

- Below Maximum Soil Contaminant Concentration Levels (MSCCs)
- Exceeds Maximum Soil Contaminant Concentration Levels (MSCCs)
- Not Sampled Due to Presence of Free Product or Proximity to Clean Locations
- Results Pending

Note: See Table 5 for detailed results.

APEX

FIGURE 7

Checked By:	AS
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Project No.:	CPC20126

Monitoring Well Sampling Results

Colonial Pipeline Company

2020-L1-SR2448

Huntersville, North Carolina

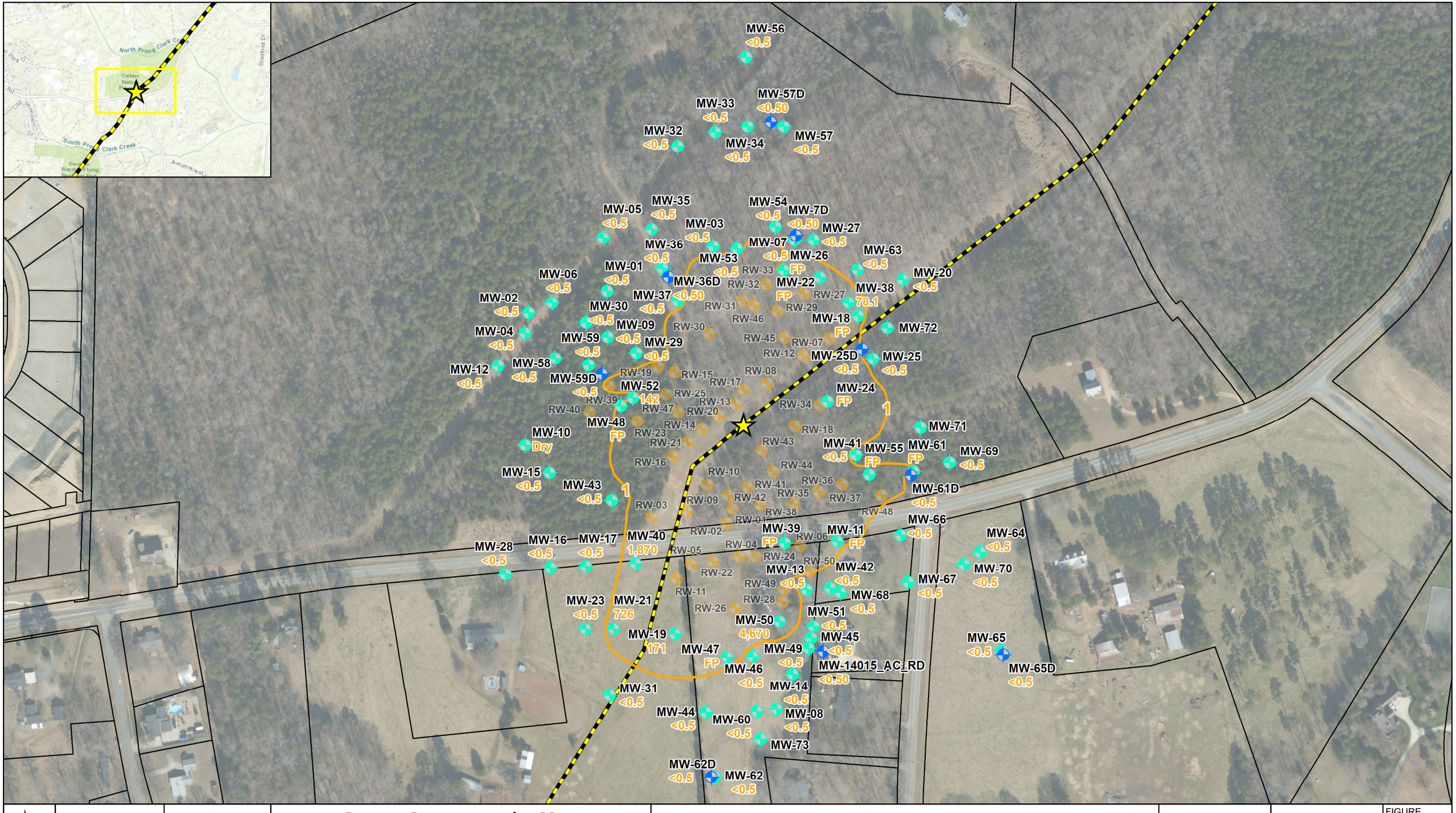
0 50 100 200 300 400 Feet

Release Site
Pipeline
Monitoring Well
Monitoring Well (Deep)
Recovery Well

Notes:
ND = Non-Detect
All units reported in µg/L.
µg/L = Micrograms per Liter
Detections in **Bold** indicate an exceedance of NCAC 2L standard.
Only laboratory detections are shown on this map.
See Table 6 for complete results.

APEX

FIGURE
8



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Date/Time:	1/20/2021; 13:56
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
78.1 Benzene Concentration (µg/L)
FP = Free Product
µg/L = Micrograms per Liter

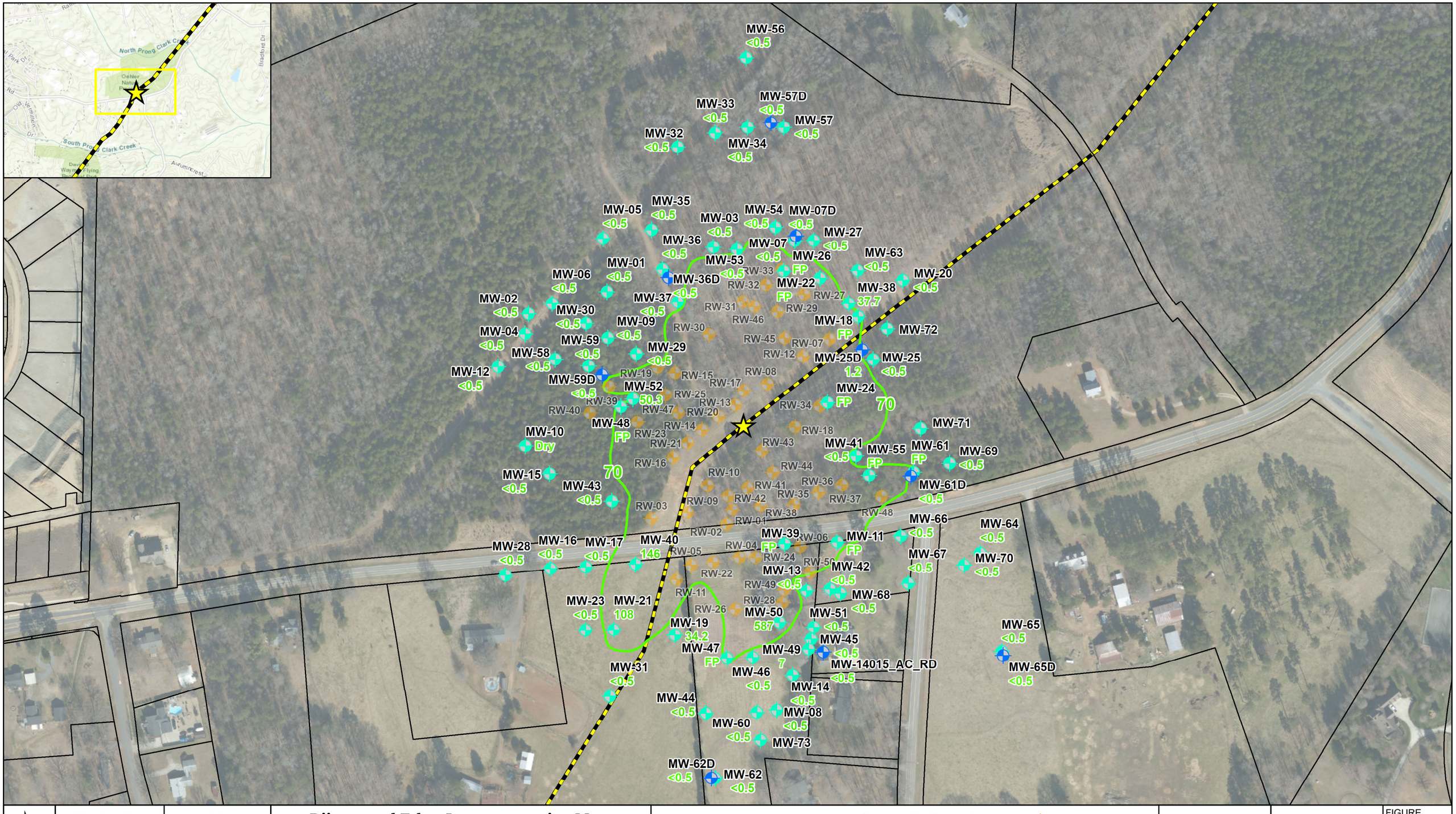
Recovery Well
Monitoring Well
Monitoring Well (Deep)

NCDEQ 2L Standard for Benzene is 1 µg/L

Note: MW-71, MW-72 and MW-73 were installed after sampling event.

APEX

FIGURE 9



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Scale:	1 " = 200 FT
Date/Time:	1/20/2021; 14:08
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

34.2 Diisopropyl Ether Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

Monitoring Well

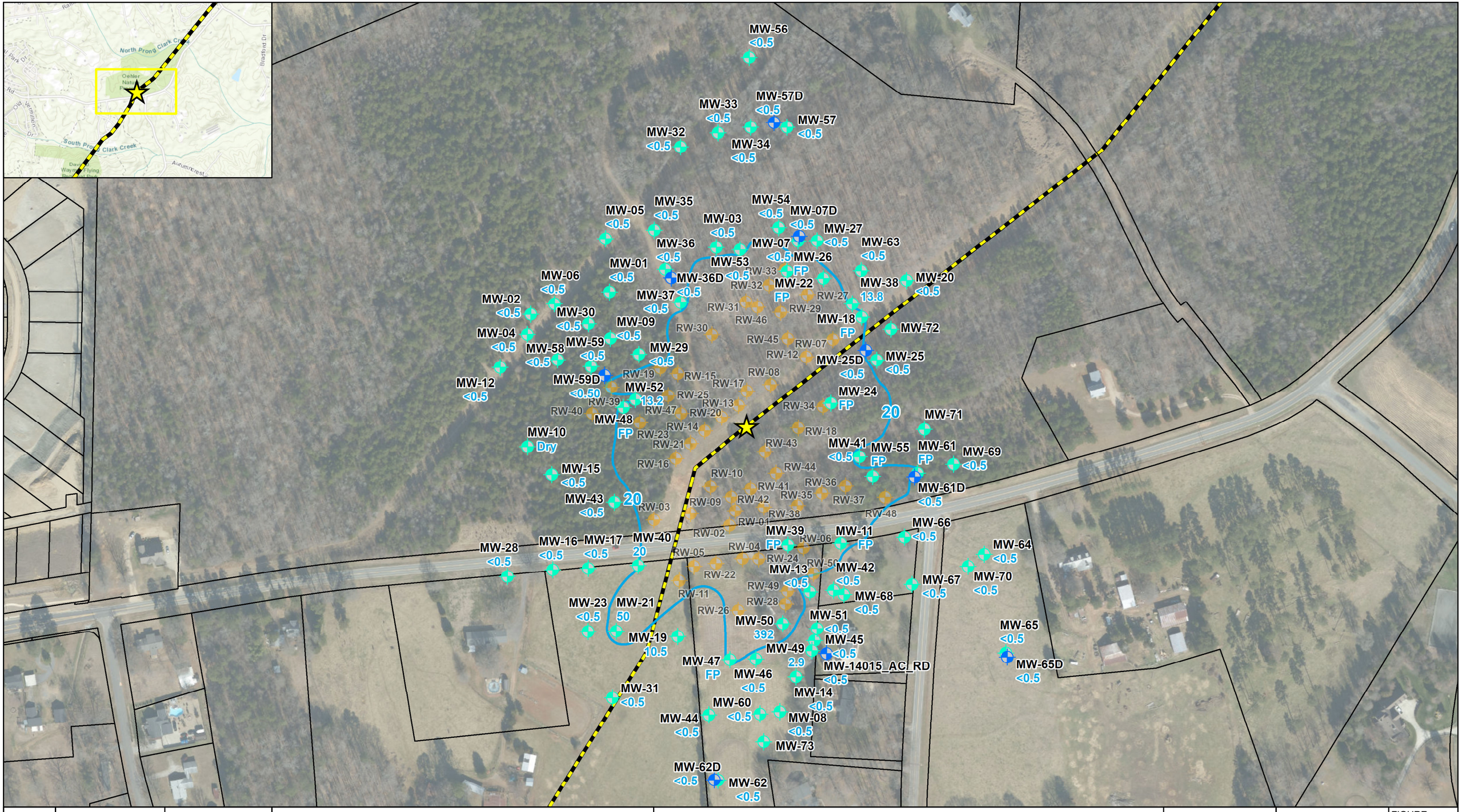
Monitoring Well (Deep)

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

Note: MW-71, MW-72 and MW-73 were installed after sampling event.
Multiple depth intervals were sampled in deep wells. Maximum detections are shown on this map.

APEX

FIGURE 10



Checked By:	AS
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Date/Time:	1/20/2021; 14:09
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

13.8 Methyl-Tert Butyl Ether Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

Monitoring Well

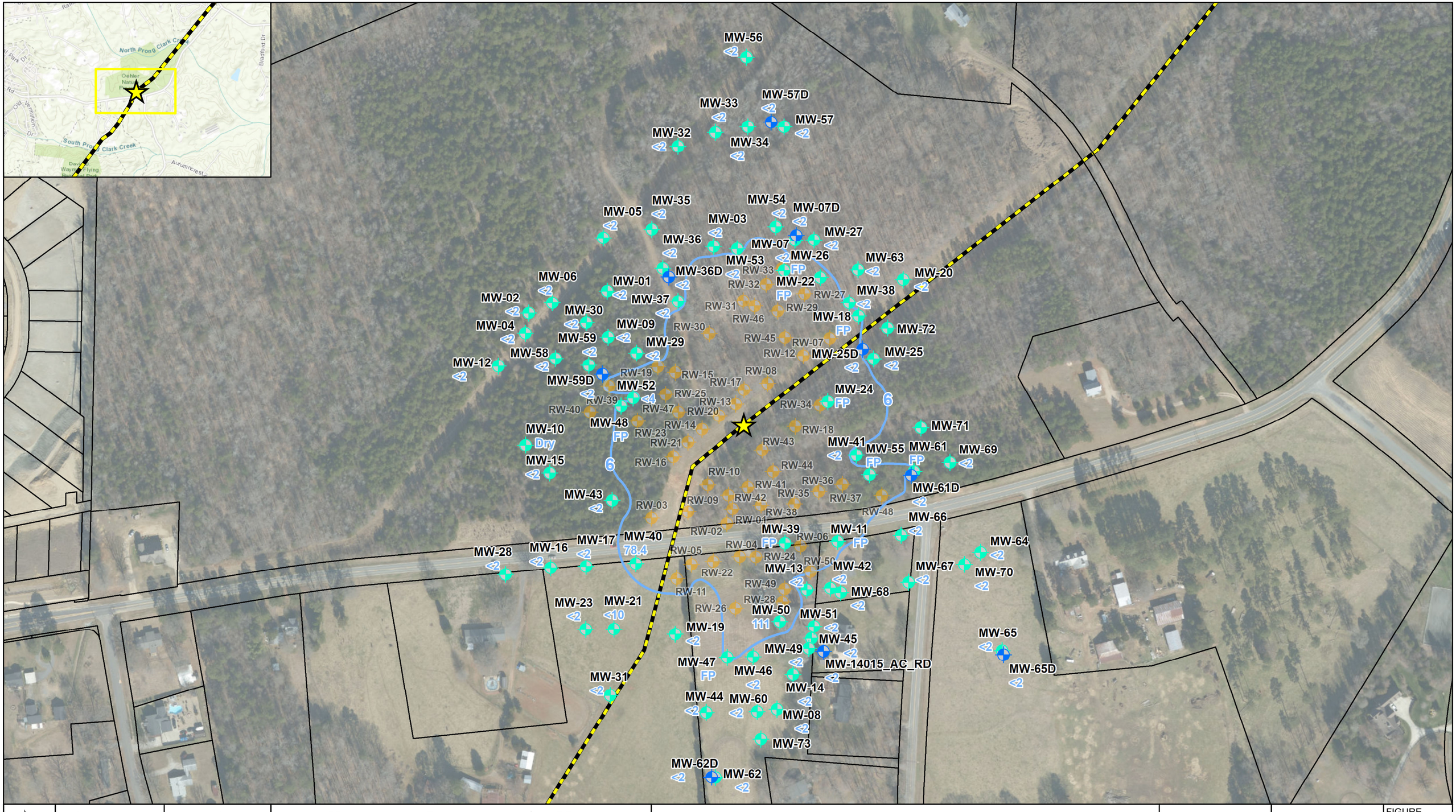
Monitoring Well (Deep)

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

Note: MW-71, MW-72 and MW-73 were installed after sampling event.

APEX

FIGURE 11



Checked By:	AS
Created By:	BM
Scale:	1 " = 200 FT
Date/Time:	1/20/2021; 14:12
Project No.:	CPC20126

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

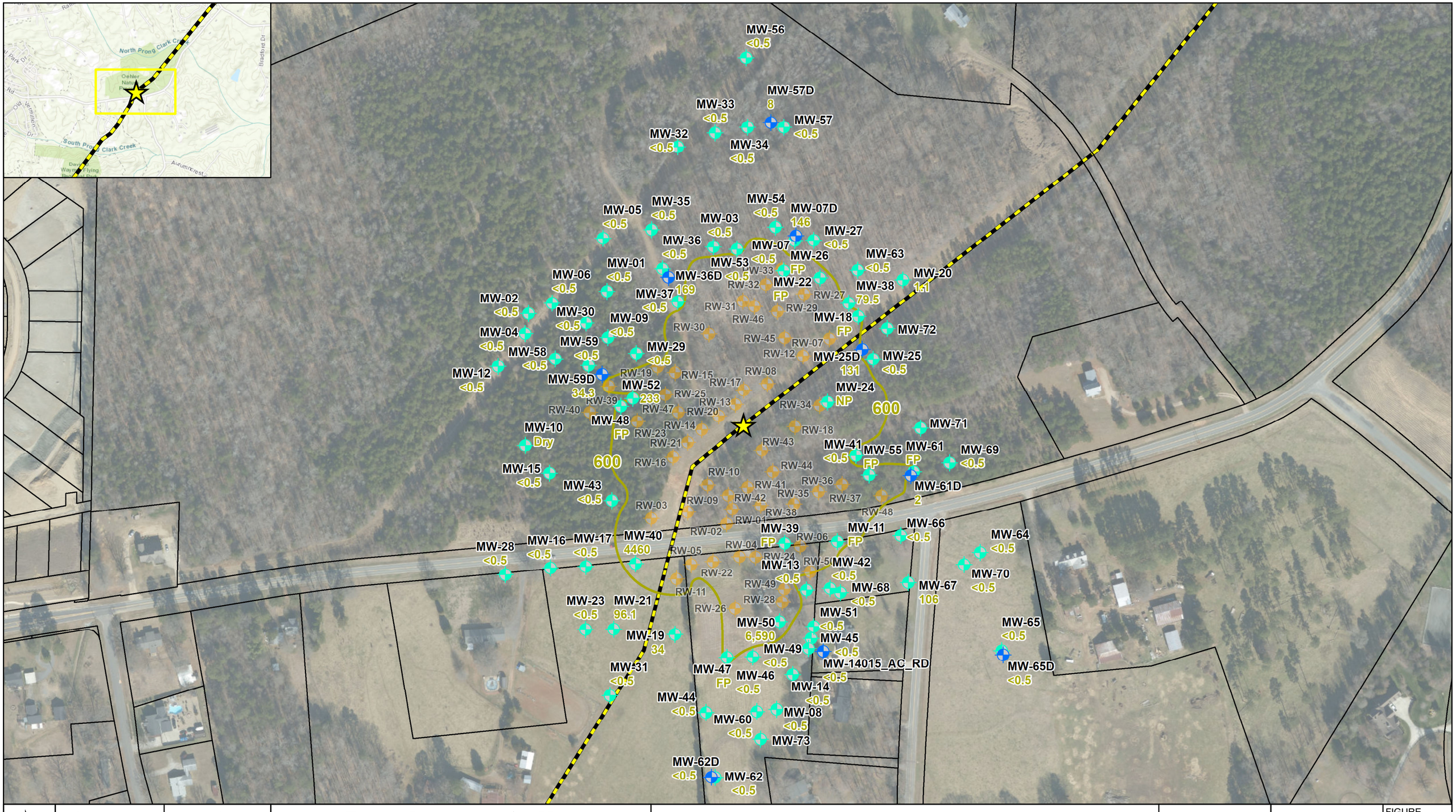
0 125 250 500 750 Feet

Release Site
Pipeline
6 Napthalene Isocontour (Dashed where Inferred)
<0.5 Constituent Not Detected Above Laboratory Practical Quantitation Limit
78.4 Naphthalene Concentration (µg/L)
FP = Free Product
µg/L = Micrograms per Liter
Recovery Well
Monitoring Well
Monitoring Well (Deep)
NCDEQ 2L Standard for Naphthalene is 6 µg/L

Note: MW-71, MW-72 and MW-73 were installed after sampling event.

APEX

FIGURE 12



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Date/Time:	1/20/2021; 14:15
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
1.1 Toluene Concentration (µg/L)
FP = Free Product
µg/L = Micrograms per Liter

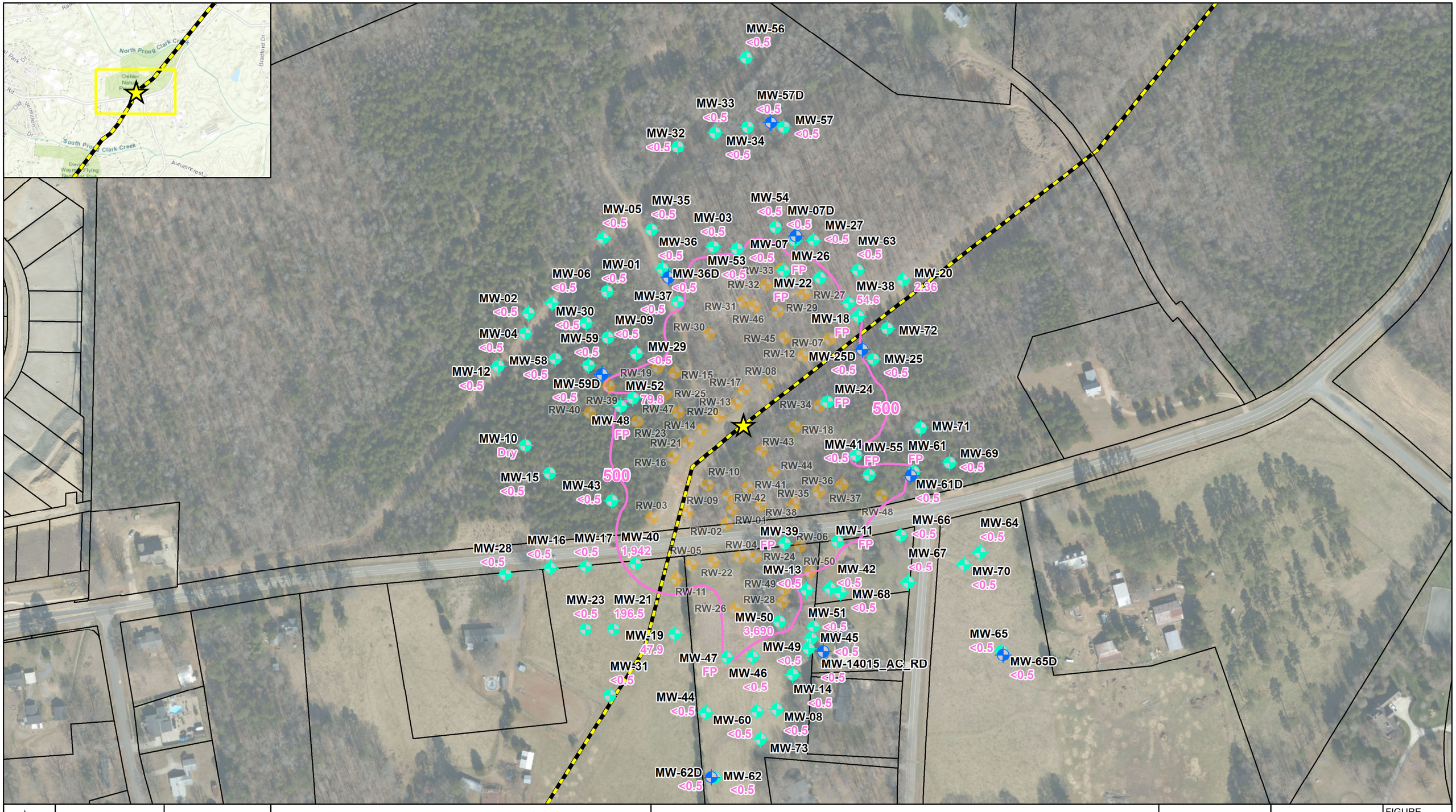
Recovery Well
Monitoring Well
Monitoring Well (Deep)

NCDEQ 2L Standard for Toluene is 600 µg/L

Note: MW-71, MW-72 and MW-73 were installed after sampling event.
Multiple depth intervals were sampled in deep wells. Maximum detections are shown on this map.

APEX

FIGURE 13



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Date/Time:	1/20/2021; 14:16
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

2.36 Total Xylenes Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

Monitoring Well

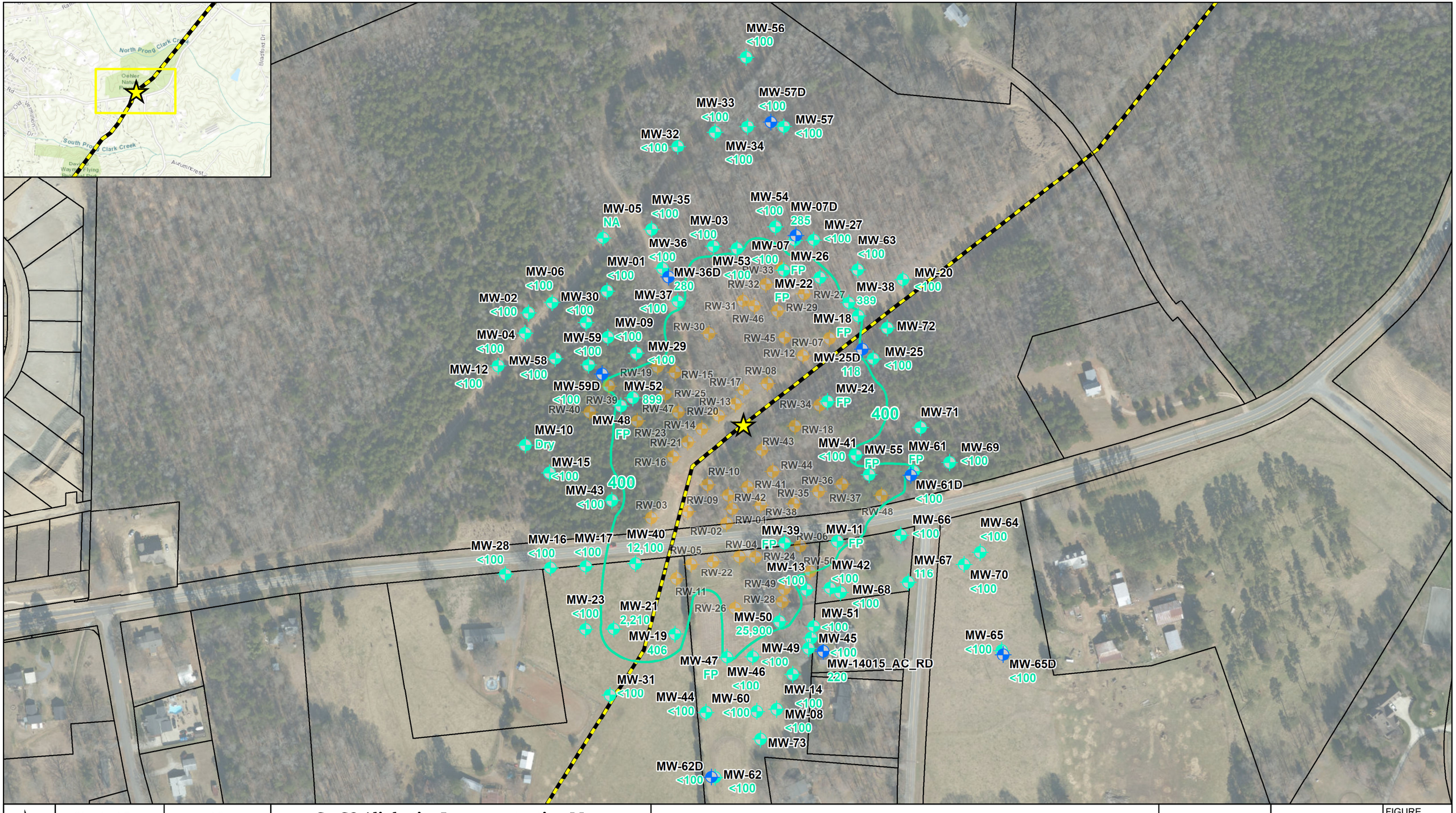
Monitoring Well (Deep)

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

Note: MW-71, MW-72 and MW-73 were installed after sampling event.

APEX

FIGURE 14



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Date/Time:	1/20/2021; 14:18
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

406 C5-C8 Aliphatics Concentration (µg/L)

FP = Free Product

µg/L = Micrograms per Liter

Recovery Well

Monitoring Well

Monitoring Well (Deep)

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

Note: MW-71, MW-72 and MW-73 were installed after sampling event.
Multiple depth intervals were sampled in deep wells. Maximum detections are shown on this map.

APEX

FIGURE 15

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
13926B_HC_RD_20201208	
Chloroform	9.2
13926B_HC_RD_20201215	
Chloroform	8.5
13926B_HC_RD_20201222	
Chloroform	6.4
13926B_HC_RD_20201229	
Chloroform	7.5
13926B_HC_RD_20210105	
Chloroform	11.5

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

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

14226_HC_RD_20201001	
Lead	6.1

14015_AC_RD_20200825	
Chloroform	1.5
14015_AC_RD_20200902	
Chloroform	4.4

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

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

13923_AC_RD_20200924	
Lead	5.5

500 FT

1500 FT

REGENT GROVE LN
RUSHWICK DR
OXFORD GLENN DR
UNION SQUARE DR
FULLBROOK DR
TILESFORD LN
CALDEFORD LN
RAVENALL DR
EOLA WAY
BIERCE FALLS ALY
LAWTHER RD
ASBURY CHAPEL RD
HUNTERSVILLE-CONCORD RD
SIMS RD
DORI DR
ASBURY PARK RD
LITTLE PINE DR
CATO DR
BLANTON DR
HUGH DIXON WAY
LOCH RAVEN RD
CRYSTAL SPRINGS DR
HUNT VALLEY DR
NICODEMUS LN
NOCACY BLVD

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

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.

Checked By:	AS
Created By:	BM
Scale:	1 " = 550 FT
Created On:	1/19/2021; 15:43
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

Sampled Water Supply Wells:

- Release Site
- Parcels
- Non-Potable Use Well
- Potable Use Well
- Inactive Use Well
- Abandoned Well
- Well Converted to Deep Monitoring Well

Note: Only wells within 1,500 feet of release source area are shown.

APEX

FIGURE 16

Data Sources: Mecklenburg County GIS (Streets, Parcels)

Checked By:	AS
Created By:	JC
Scale:	1 " = 100 FT
Date/Time:	1/19/2021; 09:25
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
17

TABLES

Table 1
Summary of Pipeline Excavation Soil Sampling Results

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

Lab Report	Sample ID	Sample Date	Volatile Organic Compounds (EPA 8260) (mg/kg)																							MADEP VPH (mg/kg)			
			1,1,2-Trichloroethane	1,2,3-Trimethylbenzene	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**	**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**	**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**	**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	**0.00441J**	<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	**0.00538J**	<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**	**0.0784**	**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	**0.00281J**	<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**	**0.0372**	**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**	**0.101**	**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	**0.00316J**	<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**	**0.131**	**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**	**0.0145**	**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	**0.0498J**	<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**	**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	<0.00850	<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	**0.00445J**	<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**	**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**	**0.00729**	**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**	**0.0190**	**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**	**0.148**	**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**	**0.00767**	**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	<0.00616	<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	<0.00752	<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**	**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**	<0.00684	**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**	**0.120**	**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**	**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**	**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**	**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**	**0.904**	**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**	**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**	**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
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-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**	**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**	**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**	**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**	**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**	**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**	**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**	**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**	**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**	**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**	**0.743**	**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**	**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**	**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**	**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**	**0.461**	**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**	**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**	**0.738**	**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**	**0.150**	**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**	**0.0619**	**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**	**0.402**	**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**	**0.0622**	**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**	**0.0222**	**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	**0.00518J**	**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**	**0.668**	**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**	**0.00543J**	**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	<0.00788	<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	**0.00318J**	<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	**0.00345J**	<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**	**0.00810J**	<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**	<0.00813	<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
J - Result is an estimated value below the laboratory reporting limit.
Bold values indicate detectable levels
Shaded values indicate compound exceeded MSCC Standard
All units are milligram per kilogram (mg/kg)

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-01	711.86	12/21/2020	ND	26.95	N/A	684.91
MW-01	711.86	12/26/2020	ND	26.94	N/A	684.92
MW-02	710.96*	9/1/2020	ND	26.65	N/A	684.31
MW-02	710.96*	9/3/2020	ND	27.59	N/A	683.37
MW-02	710.96*	9/5/2020	ND	28.00	N/A	682.96
MW-02	712.53	9/14/2020	ND	29.57	N/A	682.96
MW-02	712.53	9/18/2020	ND	29.56	N/A	682.97
MW-02	712.53	9/28/2020	ND	29.51	N/A	683.02
MW-02	712.53	10/3/2020	ND	30.60	N/A	681.93
MW-02	712.53	10/19/2020	ND	29.41	N/A	683.12
MW-02	712.53	10/26/2020	ND	29.30	N/A	683.23
MW-02	712.53	11/9/2020	ND	29.07	N/A	683.46
MW-02	712.53	11/18/2020	ND	29.05	N/A	683.48
MW-02	712.53	11/23/2020	ND	28.98	N/A	683.55
MW-02	712.53	12/7/2020	ND	28.59	N/A	683.94
MW-02	712.53	12/21/2020	ND	28.44	N/A	684.09
MW-02	712.53	12/26/2020	ND	28.74	N/A	683.79
MW-03	703.64	9/1/2020	ND	19.93	N/A	683.71
MW-03	703.64	9/3/2020	ND	22.74	N/A	680.90
MW-03	703.64	9/5/2020	ND	22.84	N/A	680.80
MW-03	703.64	9/14/2020	ND	22.78	N/A	680.86
MW-03	703.64	9/18/2020	ND	22.80	N/A	680.84
MW-03	703.64	9/28/2020	ND	22.54	N/A	681.10
MW-03	703.64	10/3/2020	ND	22.57	N/A	681.07
MW-03	703.64	10/19/2020	ND	21.88	N/A	681.76
MW-03	703.64	10/26/2020	ND	21.70	N/A	681.94
MW-03	703.64	11/9/2020	ND	21.44	N/A	682.20
MW-03	703.64	11/18/2020	ND	20.87	N/A	682.77
MW-03	703.64	11/23/2020	ND	20.76	N/A	682.88
MW-03	703.64	12/7/2020	ND	20.39	N/A	683.25
MW-03	703.64	12/21/2020	ND	19.90	N/A	683.74
MW-03	703.64	12/26/2020	ND	19.71	N/A	683.93

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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-04	715.04	12/21/2020	ND	29.78	N/A	685.26
MW-04	715.04	12/26/2020	ND	30.04	N/A	685.00
MW-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-05	707.30	12/21/2020	ND	25.14	N/A	682.16
MW-05	707.30	12/26/2020	ND	25.17	N/A	682.13
MW-06	703.81*	9/1/2020	ND	20.70	N/A	683.11
MW-06	703.81*	9/3/2020	ND	20.92	N/A	682.89
MW-06	706.34	9/14/2020	ND	23.56	N/A	682.78
MW-06	706.34	9/18/2020	ND	23.65	N/A	682.69
MW-06	706.34	9/28/2020	ND	23.47	N/A	682.87
MW-06	706.34	10/3/2020	ND	23.51	N/A	682.83
MW-06	706.34	10/19/2020	ND	23.23	N/A	683.11
MW-06	706.34	10/26/2020	ND	23.12	N/A	683.22
MW-06	706.34	11/9/2020	ND	22.91	N/A	683.43
MW-06	706.34	11/18/2020	ND	Dry	N/A	Dry
MW-06	706.34	11/23/2020	ND	22.79	N/A	683.55
MW-06	706.34	12/7/2020	ND	22.36	N/A	683.98
MW-06	706.34	12/21/2020	ND	22.18	N/A	684.16
MW-06	706.34	12/26/2020	ND	22.34	N/A	684.00

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2020-L1-SR2448
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-07	712.36	12/21/2020	ND	29.04	N/A	683.32
MW-07	712.36	12/26/2020	ND	29.02	N/A	683.34
MW-08	724.93	9/1/2020	ND	31.50	N/A	693.43
MW-08	724.93	9/3/2020	ND	31.64	N/A	693.29
MW-08	724.93	9/14/2020	ND	31.77	N/A	693.16
MW-08	724.93	9/18/2020	ND	21.78	N/A	703.15
MW-08	724.93	9/28/2020	ND	31.83	N/A	693.10
MW-08	724.93	10/3/2020	ND	31.95	N/A	692.98
MW-08	724.93	10/19/2020	ND	31.87	N/A	693.06
MW-08	724.93	10/26/2020	ND	31.79	N/A	693.14
MW-08	724.93	11/9/2020	ND	31.73	N/A	693.20
MW-08	724.93	11/18/2020	ND	31.69	N/A	693.24
MW-08	724.93	11/23/2020	ND	31.49	N/A	693.44
MW-08	724.93	12/7/2020	ND	37.31	N/A	687.62
MW-08	724.93	12/21/2020	ND	31.25	N/A	693.68
MW-08	724.93	12/26/2020	ND	31.28	N/A	693.65
MW-09	709.46*	9/1/2020	ND	26.02	N/A	683.44
MW-09	709.46*	9/3/2020	ND	26.64	N/A	682.82
MW-09	717.15	9/14/2020	ND	28.82	N/A	688.33
MW-09	717.15	9/18/2020	ND	28.84	N/A	688.31
MW-09	717.15	9/28/2020	ND	28.84	N/A	688.31
MW-09	717.15	10/3/2020	ND	28.93	N/A	688.22
MW-09	717.15	10/19/2020	ND	28.96	N/A	688.19
MW-09	717.15	10/26/2020	ND	28.93	N/A	688.22
MW-09	717.15	11/9/2020	ND	28.84	N/A	688.31
MW-09	717.15	11/18/2020	ND	28.87	N/A	688.28
MW-09	717.15	11/23/2020	ND	29.82	N/A	687.33
MW-09	717.15	12/7/2020	ND	28.62	N/A	688.53
MW-09	717.15	12/21/2020	ND	28.62	N/A	688.53
MW-09	717.15	12/26/2020	ND	28.62	N/A	688.53

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-10	722.91	12/21/2020	ND	Dry	N/A	Dry
MW-10	722.91	12/26/2020	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-11	739.65	12/21/2020	42.06	43.90	1.84	697.09
MW-11	739.65	12/26/2020	41.96	44.51	2.55	697.00
MW-12	718.27	9/1/2020	ND	30.95	N/A	687.32
MW-12	718.27	9/3/2020	ND	32.18	N/A	686.09
MW-12	718.27	9/5/2020	ND	32.27	N/A	686.00
MW-12	718.27	9/14/2020	ND	33.77	N/A	684.50
MW-12	718.27	9/18/2020	ND	33.78	N/A	684.49
MW-12	718.27	9/28/2020	ND	33.71	N/A	684.56
MW-12	718.27	10/3/2020	ND	33.78	N/A	684.49
MW-12	718.27	10/19/2020	ND	33.63	N/A	684.64
MW-12	718.27	10/26/2020	ND	33.58	N/A	684.69
MW-12	718.27	11/9/2020	ND	33.36	N/A	684.91
MW-12	718.27	11/18/2020	ND	33.36	N/A	684.91
MW-12	718.27	11/23/2020	ND	33.30	N/A	684.97
MW-12	718.27	12/7/2020	ND	32.98	N/A	685.29
MW-12	718.27	12/21/2020	ND	37.82	N/A	680.45
MW-12	718.27	12/26/2020	ND	33.11	N/A	685.16

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
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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-13	736.29	12/21/2020	ND	38.81	N/A	697.48
MW-13	736.29	12/26/2020	ND	38.92	N/A	697.37
MW-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-14	724.88	12/21/2020	ND	30.82	N/A	694.06
MW-14	724.88	12/26/2020	ND	30.89	N/A	693.99
MW-15	725.70	9/3/2020	ND	33.31	N/A	692.39
MW-15	725.70	9/5/2020	ND	33.38	N/A	692.32
MW-15	725.70	9/14/2020	ND	34.79	N/A	690.91
MW-15	725.70	9/18/2020	ND	34.81	N/A	690.89
MW-15	725.70	9/28/2020	ND	34.18	N/A	691.52
MW-15	725.70	10/3/2020	ND	34.89	N/A	690.81
MW-15	725.70	10/19/2020	ND	34.88	N/A	690.82
MW-15	725.70	10/26/2020	ND	34.88	N/A	690.82
MW-15	725.70	11/9/2020	ND	34.84	N/A	690.86
MW-15	725.70	11/18/2020	ND	34.85	N/A	690.85
MW-15	725.70	11/23/2020	ND	34.82	N/A	690.88
MW-15	725.70	12/7/2020	ND	35.72	N/A	689.98
MW-15	725.70	12/21/2020	ND	34.66	N/A	691.04
MW-15	725.70	12/26/2020	ND	34.70	N/A	691.00

Table 2
Summary of Monitoring Well Gauging Data

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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-16	725.49	12/21/2020	ND	33.73	N/A	691.76
MW-16	725.49	12/26/2020	ND	33.79	N/A	691.70
MW-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-17	727.50	12/21/2020	ND	35.62	N/A	691.88
MW-17	727.50	12/26/2020	ND	35.70	N/A	691.80
MW-18	729.75	9/3/2020	ND	36.67	N/A	693.08
MW-18	729.75	9/14/2020	ND	39.78	N/A	689.97
MW-18	729.75	9/18/2020	ND	39.75	N/A	690.00
MW-18	729.75	9/28/2020	ND	39.71	N/A	690.04
MW-18	729.75	10/3/2020	ND	39.79	N/A	689.96
MW-18	729.75	10/19/2020	ND	39.88	N/A	689.87
MW-18	729.75	10/26/2020	ND	39.93	N/A	689.82
MW-18	729.75	11/9/2020	ND	40.04	N/A	689.71
MW-18	729.75	11/18/2020	ND	40.15	N/A	689.60
MW-18	729.75	11/23/2020	ND	40.17	N/A	689.58
MW-18	729.75	12/7/2020	ND	40.11	N/A	689.64
MW-18	729.75	12/21/2020	40.13	40.88	0.75	689.42
MW-18	729.75	12/26/2020	39.85	41.95	2.10	689.34

Table 2
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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-19	726.29	12/21/2020	ND	31.30	N/A	694.99
MW-19	726.29	12/26/2020	ND	31.35	N/A	694.94
MW-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-20	729.69	12/21/2020	ND	42.26	N/A	687.43
MW-20	729.69	12/26/2020	ND	42.31	N/A	687.38
MW-21	724.97	9/14/2020	ND	24.99	N/A	699.98
MW-21	724.97	9/18/2020	ND	30.79	N/A	694.18
MW-21	724.97	9/28/2020	ND	30.73	N/A	694.24
MW-21	724.97	10/3/2020	ND	30.81	N/A	694.16
MW-21	724.97	10/19/2020	ND	30.76	N/A	694.21
MW-21	724.97	10/26/2020	ND	30.74	N/A	694.23
MW-21	724.97	11/9/2020	ND	30.78	N/A	694.19
MW-21	724.97	11/18/2020	ND	30.81	N/A	694.16
MW-21	724.97	11/23/2020	ND	30.76	N/A	694.21
MW-21	724.97	12/7/2020	ND	30.71	N/A	694.26
MW-21	724.97	12/21/2020	ND	30.80	N/A	694.17
MW-21	724.97	12/26/2020	ND	30.87	N/A	694.10

Table 2
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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-22	721.89	12/21/2020	ARP	ARP	ARP	ARP
MW-22	721.89	12/26/2020	35.85	37.54	1.69	685.59
MW-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-23**	NM	12/21/2020	ND	29.79	N/A	NM
MW-23**	NM	12/26/2020	ND	28.10	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	ARP	ARP	ARP	ARP
MW-24	737.63	11/23/2020	ARP	ARP	ARP	ARP
MW-24	737.63	12/7/2020	ARP	ARP	ARP	ARP
MW-24	737.63	12/21/2020	ARP	ARP	ARP	ARP
MW-24	737.63	12/26/2020	43.01	56.43	13.42	691.03
MW-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
MW-25	734.04	12/21/2020	ND	43.85	N/A	690.19
MW-25	734.04	12/26/2020	ND	43.92	N/A	690.12

Table 2
Summary of Monitoring Well Gauging Data

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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	2.06	685.97
MW-26	717.71	9/18/2020	30.70	34.61	3.91	685.96
MW-26	717.71	9/28/2020	29.56	37.80	8.24	685.95
MW-26	717.71	10/3/2020	29.56	38.75	9.19	685.69
MW-26	717.71	10/19/2020	28.91	39.92	11.01	685.85
MW-26	717.71	10/26/2020	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	ARP	ARP	ARP	ARP
MW-26	717.71	11/23/2020	42.57	54.00	11.43	672.08
MW-26	717.71	12/7/2020	ARP	ARP	ARP	ARP
MW-26	717.71	12/21/2020	ARP	ARP	ARP	ARP
MW-26	717.71	12/26/2020	ARP	ARP	ARP	ARP
MW-27	716.19	9/14/2020	ND	33.27	N/A	682.92
MW-27	716.19	9/18/2020	ND	33.24	N/A	682.95
MW-27	716.19	9/28/2020	ND	33.18	N/A	683.01
MW-27	716.19	10/3/2020	ND	33.23	N/A	682.96
MW-27	716.19	10/19/2020	ND	33.24	N/A	682.95
MW-27	716.19	10/26/2020	ND	33.23	N/A	682.96
MW-27	716.19	11/9/2020	ND	33.21	N/A	682.98
MW-27	716.19	11/18/2020	ND	33.25	N/A	682.94
MW-27	716.19	11/23/2020	ND	33.19	N/A	683.00
MW-27	716.19	12/7/2020	ND	33.02	N/A	683.17
MW-27	716.19	12/21/2020	ND	33.15	N/A	683.04
MW-27	716.19	12/26/2020	ND	33.14	N/A	683.05
MW-28	720.45	9/14/2020	ND	29.37	N/A	691.08
MW-28	720.45	9/18/2020	ND	29.34	N/A	691.11
MW-28	720.45	9/28/2020	ND	29.32	N/A	691.13
MW-28	720.45	10/3/2020	ND	29.36	N/A	691.09
MW-28	720.45	10/19/2020	ND	29.33	N/A	691.12
MW-28	720.45	10/26/2020	ND	29.29	N/A	691.16
MW-28	720.45	11/9/2020	ND	29.25	N/A	691.20
MW-28	720.45	11/18/2020	ND	29.22	N/A	691.23
MW-28	720.45	11/23/2020	ND	29.19	N/A	691.26
MW-28	720.45	12/7/2020	ND	29.09	N/A	691.36
MW-28	720.45	12/21/2020	ND	29.03	N/A	691.42
MW-28	720.45	12/26/2020	ND	29.09	N/A	691.36
MW-29	718.73	9/14/2020	ND	29.71	N/A	689.02
MW-29	718.73	9/18/2020	ND	29.79	N/A	688.94
MW-29	718.73	9/28/2020	ND	29.86	N/A	688.87
MW-29	718.73	10/3/2020	ND	30.00	N/A	688.73
MW-29	718.73	10/19/2020	ND	30.10	N/A	688.63
MW-29	718.73	10/26/2020	ND	30.11	N/A	688.62
MW-29	718.73	11/9/2020	ND	30.07	N/A	688.66
MW-29	718.73	11/18/2020	ND	30.12	N/A	688.61
MW-29	718.73	11/23/2020	ND	30.05	N/A	688.68
MW-29	718.73	12/7/2020	ND	29.85	N/A	688.88
MW-29	718.73	12/21/2020	ND	29.91	N/A	688.82
MW-29	718.73	12/26/2020	ND	29.94	N/A	688.79

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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-30	715.08	12/21/2020	ND	29.43	N/A	685.65
MW-30	715.08	12/26/2020	ND	29.42	N/A	685.66
MW-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-31	721.45	12/21/2020	ND	27.53	N/A	693.92
MW-31	721.45	12/26/2020	ND	27.61	N/A	693.84
MW-32	691.78	9/14/2020	ND	16.19	N/A	675.59
MW-32	691.78	9/18/2020	ND	16.06	N/A	675.72
MW-32	691.78	9/28/2020	ND	15.63	N/A	676.15
MW-32	691.78	10/3/2020	ND	15.73	N/A	676.05
MW-32	691.78	10/19/2020	ND	15.09	N/A	676.69
MW-32	691.78	10/26/2020	ND	14.98	N/A	676.80
MW-32	691.78	11/9/2020	ND	14.57	N/A	677.21
MW-32	691.78	11/18/2020	ND	14.38	N/A	677.40
MW-32	691.78	11/23/2020	ND	14.11	N/A	677.67
MW-32	691.78	12/7/2020	ND	13.60	N/A	678.18
MW-32	691.78	12/21/2020	ND	13.31	N/A	678.47
MW-32	691.78	12/26/2020	ND	13.47	N/A	678.31
MW-33	686.70	9/14/2020	ND	13.20	N/A	673.50
MW-33	686.70	9/18/2020	ND	13.03	N/A	673.67
MW-33	686.70	9/28/2020	ND	12.63	N/A	674.07
MW-33	686.70	10/3/2020	ND	12.76	N/A	673.94
MW-33	686.70	10/19/2020	ND	12.12	N/A	674.58
MW-33	686.70	10/26/2020	ND	12.03	N/A	674.67
MW-33	686.70	11/9/2020	ND	11.58	N/A	675.12
MW-33	686.70	11/18/2020	ND	11.30	N/A	675.40
MW-33	686.70	11/23/2020	ND	11.13	N/A	675.57
MW-33	686.70	12/7/2020	ND	10.53	N/A	676.17
MW-33	686.70	12/21/2020	ND	10.18	N/A	676.52
MW-33	686.70	12/26/2020	ND	10.23	N/A	676.47

Table 2
Summary of Monitoring Well Gauging Data

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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-34	683.89	12/21/2020	ND	7.74	N/A	676.15
MW-34	683.89	12/26/2020	ND	7.80	N/A	676.09
MW-35	707.14	9/14/2020	ND	26.78	N/A	680.36
MW-35	707.14	9/18/2020	ND	26.78	N/A	680.36
MW-35	707.14	9/28/2020	ND	26.52	N/A	680.62
MW-35	707.14	10/3/2020	ND	26.48	N/A	680.66
MW-35	707.14	10/19/2020	ND	25.90	N/A	681.24
MW-35	707.14	10/26/2020	ND	25.76	N/A	681.38
MW-35	707.14	11/9/2020	ND	25.48	N/A	681.66
MW-35	707.14	11/18/2020	ND	25.11	N/A	682.03
MW-35	707.14	11/23/2020	ND	25.00	N/A	682.14
MW-35	707.14	12/7/2020	ND	24.62	N/A	682.52
MW-35	707.14	12/21/2020	ND	24.35	N/A	682.79
MW-35	707.14	12/26/2020	ND	24.15	N/A	682.99
MW-36	710.54	9/14/2020	ND	28.62	N/A	681.92
MW-36	710.54	9/18/2020	ND	28.61	N/A	681.93
MW-36	710.54	9/28/2020	ND	28.35	N/A	682.19
MW-36	710.54	10/3/2020	ND	28.31	N/A	682.23
MW-36	710.54	10/19/2020	ND	27.73	N/A	682.81
MW-36	710.54	10/26/2020	ND	27.64	N/A	682.90
MW-36	710.54	11/9/2020	ND	27.44	N/A	683.10
MW-36	710.54	11/18/2020	ND	27.05	N/A	683.49
MW-36	710.54	11/23/2020	ND	26.92	N/A	683.62
MW-36	710.54	12/7/2020	ND	26.57	N/A	683.97
MW-36	710.54	12/21/2020	ND	26.29	N/A	684.25
MW-36	710.54	12/26/2020	ND	26.13	N/A	684.41
MW-37	714.94	9/14/2020	ND	26.90	N/A	688.04
MW-37	714.94	9/18/2020	ND	26.92	N/A	688.02
MW-37	714.94	9/28/2020	ND	26.99	N/A	687.95
MW-37	714.94	10/3/2020	ND	27.14	N/A	687.80
MW-37	714.94	10/19/2020	ND	27.18	N/A	687.76
MW-37	714.94	10/26/2020	ND	27.21	N/A	687.73
MW-37	714.94	11/9/2020	ND	27.16	N/A	687.78
MW-37	714.94	11/18/2020	ND	27.18	N/A	687.76
MW-37	714.94	11/23/2020	ND	27.12	N/A	687.82
MW-37	714.94	12/7/2020	ND	26.90	N/A	688.04
MW-37	714.94	12/21/2020	ND	26.85	N/A	688.09
MW-37	714.94	12/26/2020	ND	26.89	N/A	688.05

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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-38	726.74	12/21/2020	ND	38.18	N/A	688.56
MW-38	726.74	12/26/2020	ND	38.23	N/A	688.51
MW-39	738.13	9/14/2020	ND	41.90	N/A	696.23
MW-39	738.13	9/18/2020	ND	38.31	N/A	699.82
MW-39	738.13	9/28/2020	ND	38.33	N/A	699.80
MW-39	738.13	10/3/2020	ND	38.58	N/A	699.55
MW-39	738.13	10/19/2020	38.51	39.71	1.20	699.30
MW-39	738.13	11/9/2020	38.48	39.04	0.56	699.50
MW-39	738.13	11/18/2020	NM	NM	NM	NM
MW-39	738.13	11/23/2020	37.85	38.95	1.10	699.98
MW-39	738.13	12/7/2020	ARP	ARP	ARP	ARP
MW-39	738.13	12/21/2020	ARP	ARP	ARP	ARP
MW-39	738.13	12/26/2020	30.20	30.31	0.11	707.90
MW-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-40	728.92	12/21/2020	33.70	33.73	0.03	695.21
MW-40	728.92	12/26/2020	ND	33.85	N/A	695.07
MW-41	745.92	9/14/2020	ND	53.40	N/A	692.52
MW-41	745.92	9/18/2020	ND	53.40	N/A	692.52
MW-41	745.92	9/28/2020	ND	53.36	N/A	692.56
MW-41	745.92	10/3/2020	ND	53.49	N/A	692.43
MW-41	745.92	10/19/2020	ND	53.51	N/A	692.41
MW-41	745.92	10/26/2020	ND	53.49	N/A	692.43
MW-41	745.92	11/9/2020	ND	53.53	N/A	692.39
MW-41	745.92	11/18/2020	ND	53.63	N/A	692.29
MW-41	745.92	11/23/2020	ND	53.60	N/A	692.32
MW-41	745.92	12/7/2020	ND	53.54	N/A	692.38
MW-41	745.92	12/21/2020	ND	53.82	N/A	692.10
MW-41	745.92	12/26/2020	ND	53.77	N/A	692.15

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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-42	735.71	12/21/2020	ND	38.50	N/A	697.21
MW-42	735.71	12/26/2020	ND	38.61	N/A	697.10
MW-43	729.80	9/14/2020	ND	38.27	N/A	691.53
MW-43	729.80	9/18/2020	ND	38.30	N/A	691.50
MW-43	729.80	9/28/2020	ND	38.33	N/A	691.47
MW-43	729.80	10/3/2020	ND	38.52	N/A	691.28
MW-43	729.80	10/19/2020	ND	38.49	N/A	691.31
MW-43	729.80	10/26/2020	ND	38.52	N/A	691.28
MW-43	729.80	11/9/2020	ND	38.49	N/A	691.31
MW-43	729.80	11/18/2020	ND	38.55	N/A	691.25
MW-43	729.80	11/23/2020	ND	39.51	N/A	690.29
MW-43	729.80	12/7/2020	ND	38.40	N/A	691.40
MW-43	729.80	12/21/2020	ND	38.50	N/A	691.30
MW-43	729.80	12/26/2020	ND	38.58	N/A	691.22
MW-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	N/A	693.98
MW-44	726.48	12/21/2020	ND	32.50	N/A	693.98
MW-44	726.48	12/26/2020	ND	32.50	N/A	693.98
MW-45	729.41	9/14/2020	ND	35.28	N/A	694.13
MW-45	729.41	9/18/2020	ND	35.21	N/A	694.20
MW-45	729.41	9/28/2020	ND	35.29	N/A	694.12
MW-45	729.41	10/3/2020	ND	35.40	N/A	694.01
MW-45	729.41	10/19/2020	ND	35.38	N/A	694.03
MW-45	729.41	10/26/2020	ND	35.39	N/A	694.02
MW-45	729.41	11/9/2020	ND	35.37	N/A	694.04
MW-45	729.41	11/18/2020	ND	35.41	N/A	694.00
MW-45	729.41	11/23/2020	ND	35.27	N/A	694.14
MW-45	729.41	12/7/2020	ND	35.19	N/A	694.22
MW-45	729.41	12/21/2020	ND	35.24	N/A	694.17
MW-45	729.41	12/26/2020	ND	35.34	N/A	694.07

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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-46	726.73	12/21/2020	ND	31.77	N/A	694.96
MW-46	726.73	12/26/2020	ND	31.85	N/A	694.88
MW-47	726.77	9/14/2020	ND	30.88	N/A	695.89
MW-47	726.77	9/18/2020	ND	30.75	N/A	696.02
MW-47	726.77	9/28/2020	ND	30.74	N/A	696.03
MW-47	726.77	10/3/2020	30.54	30.88	0.34	696.14
MW-47	726.77	10/19/2020	25.61	27.85	2.24	700.56
MW-47	726.77	11/9/2020	25.51	27.78	2.27	700.65
MW-47	726.77	11/18/2020	ARP	ARP	ARP	ARP
MW-47	726.77	11/23/2020	25.51	27.75	2.24	700.66
MW-47	726.77	12/7/2020	ARP	ARP	ARP	ARP
MW-47	726.77	12/21/2020	ARP	ARP	ARP	ARP
MW-47	726.77	12/26/2020	25.58	27.80	2.22	700.60
MW-48	723.09	9/18/2020	ND	33.44	N/A	689.65
MW-48	723.09	9/28/2020	ND	33.38	N/A	689.71
MW-48	723.09	10/3/2020	ND	33.57	N/A	689.52
MW-48	723.09	10/19/2020	ND	33.63	N/A	689.46
MW-48	723.09	10/26/2020	ND	33.65	N/A	689.44
MW-48	723.09	11/9/2020	ND	33.58	N/A	689.51
MW-48	723.09	11/18/2020	ND	33.64	N/A	689.45
MW-48	723.09	11/23/2020	ND	33.56	N/A	689.53
MW-48	723.09	12/7/2020	33.30	33.70	0.40	689.68
MW-48	723.09	12/21/2020	ARP	ARP	ARP	ARP
MW-48	723.09	12/26/2020	33.79	34.51	0.72	689.10
MW-49	727.58	9/18/2020	ND	32.29	N/A	695.29
MW-49	727.58	9/28/2020	ND	33.63	N/A	693.95
MW-49	727.58	10/3/2020	ND	33.75	N/A	693.83
MW-49	727.58	10/19/2020	ND	33.73	N/A	693.85
MW-49	727.58	10/26/2020	ND	33.76	N/A	693.82
MW-49	727.58	11/9/2020	ND	33.69	N/A	693.89
MW-49	727.58	11/18/2020	ND	33.70	N/A	693.88
MW-49	727.58	11/23/2020	ND	33.55	N/A	694.03
MW-49	727.58	12/7/2020	ND	33.45	N/A	694.13
MW-49	727.58	12/21/2020	ND	33.49	N/A	694.09
MW-49	727.58	12/26/2020	ND	33.57	N/A	694.01

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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	N/A	696.10
MW-50	731.14	9/28/2020	ND	36.74	N/A	694.40
MW-50	731.14	10/3/2020	ND	36.85	N/A	694.29
MW-50	731.14	10/19/2020	ND	36.88	N/A	694.26
MW-50	731.14	10/26/2020	ND	36.94	N/A	694.20
MW-50	731.14	11/9/2020	ND	36.90	N/A	694.24
MW-50	731.14	11/18/2020	ND	36.99	N/A	694.15
MW-50	731.14	11/23/2020	ND	36.86	N/A	694.28
MW-50	731.14	12/7/2020	ND	36.81	N/A	694.33
MW-50	731.14	12/21/2020	ND	36.84	N/A	694.30
MW-50	731.14	12/26/2020	ND	36.95	N/A	694.19
MW-51	731.20	9/18/2020	ND	31.34	N/A	699.86
MW-51	731.20	9/28/2020	ND	37.08	N/A	694.12
MW-51	731.20	10/3/2020	ND	37.18	N/A	694.02
MW-51	731.20	10/19/2020	ND	37.18	N/A	694.02
MW-51	731.20	10/26/2020	ND	37.19	N/A	694.01
MW-51	731.20	11/9/2020	ND	37.18	N/A	694.02
MW-51	731.20	11/18/2020	ND	37.27	N/A	693.93
MW-51	731.20	11/23/2020	ND	37.10	N/A	694.10
MW-51	731.20	12/7/2020	ND	37.03	N/A	694.17
MW-51	731.20	12/21/2020	ND	37.08	N/A	694.12
MW-51	731.20	12/26/2020	ND	37.18	N/A	694.02
MW-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-52	722.94	12/21/2020	ND	33.54	N/A	689.40
MW-52	722.94	12/26/2020	ND	33.49	N/A	689.45
MW-53	707.49	10/3/2020	ND	29.76	N/A	677.73
MW-53	707.49	10/19/2020	ND	25.59	N/A	681.90
MW-53	707.49	10/26/2020	ND	25.51	N/A	681.98
MW-53	707.49	11/9/2020	ND	25.40	N/A	682.09
MW-53	707.49	11/18/2020	ND	25.20	N/A	682.29
MW-53	707.49	11/23/2020	ND	25.07	N/A	682.42
MW-53	707.49	12/7/2020	ND	24.86	N/A	682.63
MW-53	707.49	12/21/2020	ND	24.78	N/A	682.71
MW-53	707.49	12/26/2020	ND	27.74	N/A	679.75
MW-54	707.97	10/3/2020	ND	25.60	N/A	682.37
MW-54	707.97	10/19/2020	ND	25.41	N/A	682.56
MW-54	707.97	10/26/2020	ND	25.35	N/A	682.62
MW-54	707.97	11/9/2020	ND	25.26	N/A	682.71
MW-54	707.97	11/18/2020	ND	25.16	N/A	682.81
MW-54	707.97	11/23/2020	ND	25.06	N/A	682.91
MW-54	707.97	12/7/2020	ND	24.79	N/A	683.18
MW-54	707.97	12/21/2020	ND	24.74	N/A	683.23
MW-54	707.97	12/26/2020	ND	24.74	N/A	683.23

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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	ARP	ARP	ARP	ARP
MW-55	745.50	12/21/2020	ARP	ARP	ARP	ARP
MW-55	745.50	12/26/2020	51.17	53.54	2.37	693.70
MW-56	681.53	10/3/2020	ND	12.27	N/A	669.26
MW-56	681.53	10/19/2020	ND	11.86	N/A	669.67
MW-56	681.53	10/26/2020	ND	11.76	N/A	669.77
MW-56	681.53	11/9/2020	ND	11.36	N/A	670.17
MW-56	681.53	11/18/2020	ND	11.11	N/A	670.42
MW-56	681.53	11/23/2020	ND	10.95	N/A	670.58
MW-56	681.53	12/7/2020	ND	10.49	N/A	671.04
MW-56	681.53	12/21/2020	ND	10.16	N/A	671.37
MW-56	681.53	12/26/2020	ND	10.30	N/A	671.23
MW-57	687.07	10/3/2020	ND	13.71	N/A	673.36
MW-57	687.07	10/19/2020	ND	13.11	N/A	673.96
MW-57	687.07	10/26/2020	ND	13.05	N/A	674.02
MW-57	687.07	11/9/2020	ND	12.20	N/A	674.87
MW-57	687.07	11/18/2020	ND	12.25	N/A	674.82
MW-57	687.07	11/23/2020	ND	12.19	N/A	674.88
MW-57	687.07	12/7/2020	ND	11.64	N/A	675.43
MW-57	687.07	12/21/2020	ND	11.26	N/A	675.81
MW-57	687.07	12/26/2020	ND	11.20	N/A	675.87
MW-58	717.30	10/3/2020	ND	29.77	N/A	687.53
MW-58	717.30	10/19/2020	ND	29.78	N/A	687.52
MW-58	717.30	10/26/2020	ND	29.74	N/A	687.56
MW-58	717.30	11/9/2020	ND	29.60	N/A	687.70
MW-58	717.30	11/18/2020	ND	29.59	N/A	687.71
MW-58	717.30	11/23/2020	ND	29.54	N/A	687.76
MW-58	717.30	12/7/2020	ND	29.28	N/A	688.02
MW-58	717.30	12/21/2020	ND	29.23	N/A	688.07
MW-58	717.30	12/26/2020	ND	29.31	N/A	687.99
MW-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
MW-59	719.38	12/21/2020	ND	37.80	N/A	681.58
MW-59	719.38	12/26/2020	ND	30.83	N/A	688.55

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-60	726.76	12/21/2020	ND	33.07	N/A	693.69
MW-60	726.76	12/26/2020	ND	33.08	N/A	693.68
MW-61	NM	11/9/2020	ND	52.13	N/A	NM
MW-61	NM	11/18/2020	ND	NM	N/A	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-61	NM	12/21/2020	ARP	ARP	ARP	ARP
MW-61	NM	12/26/2020	54.43	54.96	0.53	NM
MW-62	NM	11/23/2020	NM	NM	NM	NM
MW-62	NM	12/7/2020	ND	36.95	N/A	NM
MW-62	NM	12/21/2020	ND	36.91	N/A	NM
MW-62	NM	12/26/2020	ND	36.98	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
MW-63	NM	12/21/2020	ND	39.70	N/A	NM
MW-63	NM	12/26/2020	ND	39.69	N/A	NM
MW-64	NM	12/26/2020	ND	38.24	N/A	NM
MW-65	NM	12/26/2020	ND	23.38	N/A	NM
MW-66	NM	12/26/2020	ND	40.59	N/A	NM
MW-67	NM	12/26/2020	ND	32.06	N/A	NM
MW-68	NM	12/26/2020	ND	38.03	N/A	NM
MW-69	NM	12/26/2020	ND	49.96	N/A	NM
MW-70	NM	12/26/2020	ND	35.82	N/A	NM

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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)
Bedrock Wells						
MW-07D	NM	12/21/2020	ND	29.38	N/A	NM
MW-07D	NM	12/26/2020	ND	29.37	N/A	NM
MW-25D	733.05	12/26/2020	ND	46.90	N/A	686.15
MW-36D	710.81	12/7/2020	ND	24.81	N/A	686.00
MW-36D	710.81	12/21/2020	ND	24.46	N/A	686.35
MW-36D	710.81	12/26/2020	ND	24.49	N/A	686.32
MW-57D	686.44	12/7/2020	ND	11.25	N/A	675.19
MW-57D	686.44	12/21/2020	ND	10.87	N/A	675.57
MW-57D	686.44	12/26/2020	ND	10.82	N/A	675.62
MW-59D	720.98	12/7/2020	ND	60.12	N/A	660.86
MW-59D	720.98	12/21/2020	ND	35.43	N/A	685.55
MW-59D	720.98	12/26/2020	ND	34.71	N/A	686.27
MW-61D	745.40	11/23/2020	ND	NM	N/A	NM
MW-61D	745.40	12/7/2020	ND	53.30	N/A	692.10
MW-61D	745.40	12/21/2020	ND	53.50	N/A	691.90
MW-61D	745.40	12/26/2020	ND	53.56	N/A	691.84
MW-62D	729.92	12/7/2020	ND	54.99	N/A	674.93
MW-62D	729.92	12/21/2020	ND	54.05	N/A	675.87
MW-62D	729.92	12/26/2020	ND	54.19	N/A	675.73
MW-65D	729.92	12/26/2020	ND	23.15	N/A	706.77

Notes:

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

MW = Monitoring Well

ND = Not Detected

ARP = Active Recovery Pump in Well

NM = Not Measured

[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 3
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-01	733.43	12/26/2020	32.81	32.82	0.01	700.61
RW-02	731.66	9/1/2020	27.30	39.60	12.30	701.07
RW-02	731.66	9/5/2020	27.66	39.67	12.01	700.79
RW-02	731.66	9/8/2020	27.90	39.65	11.75	700.62
RW-02	731.66	9/9/2020	28.65	39.65	11.00	700.07
RW-02	731.66	9/12/2020	28.43	38.95	10.52	700.41
RW-02	731.66	9/14/2020	28.43	39.70	11.27	700.21
RW-02	731.66	9/18/2020	29.10	38.60	9.50	700.02
RW-02	731.66	9/28/2020	29.52	39.42	9.90	699.49
RW-02	731.66	10/2/2020	29.70	39.70	10.00	699.28
RW-02	731.66	10/7/2020	30.04	39.68	9.64	699.04
RW-02	731.66	10/19/2020	30.45	39.65	9.20	698.75
RW-02	731.66	11/9/2020	31.38	39.65	8.27	698.07
RW-02	731.66	11/23/2020	ND	31.80	N/A	699.86
RW-02	731.66	12/26/2020	ND	37.81	N/A	693.85
RW-03	731.51	9/1/2020	34.15	37.55	3.40	696.45
RW-03	731.51	9/3/2020	37.20	37.26	0.06	694.30
RW-03	731.51	9/5/2020	35.50	37.44	1.94	695.49
RW-03	731.51	9/8/2020	34.80	35.95	1.15	696.40
RW-03	731.51	9/9/2020	33.95	38.80	4.85	696.26
RW-03	731.51	9/11/2020	34.92	36.60	1.68	696.14
RW-03	731.51	9/12/2020	34.85	36.35	1.50	696.26
RW-03	731.51	9/14/2020	33.91	36.97	3.06	696.78
RW-03	731.51	9/18/2020	34.20	37.10	2.90	696.54
RW-03	731.51	9/28/2020	33.85	37.55	3.70	696.67
RW-03	731.51	10/2/2020	34.72	38.17	3.45	695.87
RW-03	731.51	10/6/2020	33.55	38.80	5.25	696.56
RW-03	731.51	10/19/2020	33.00	38.89	5.89	696.94
RW-03	731.51	11/9/2020	33.31	38.84	5.53	696.72
RW-03	731.51	12/26/2020	31.85	36.45	4.60	698.43

Table 3
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-04	729.41	12/26/2020	38.25	47.20	8.95	688.76
RW-05	726.29	9/1/2020	27.00	32.55	5.55	697.81
RW-05	726.29	9/3/2020	*31.65*	*36.65*	5.00	693.30
RW-05	726.29	9/5/2020	*26.75*	*33.31*	6.56	697.79
RW-05	726.29	9/8/2020	26.04	33.30	7.26	698.31
RW-05	726.29	9/11/2020	26.60	31.60	5.00	698.35
RW-05	726.29	9/12/2020	27.15	29.60	2.45	698.49
RW-05	726.29	9/14/2020	26.80	29.92	3.12	698.66
RW-05	726.29	9/18/2020	27.70	28.80	1.10	698.30
RW-05	726.29	9/28/2020	27.60	29.35	1.75	698.22
RW-05	726.29	10/2/2020	27.30	31.30	4.00	697.92
RW-05	726.29	10/5/2020	27.13	32.00	4.87	697.86
RW-05	726.29	10/19/2020	25.90	36.76	10.86	697.48
RW-05	726.29	11/9/2020	26.95	35.93	8.98	696.94
RW-05	726.29	11/23/2020	27.40	30.30	2.90	698.11
RW-05	726.29	12/26/2020	29.70	32.30	2.60	695.90
RW-06	734.78	9/1/2020	*37.65*	*43.85*	6.20	695.47
RW-06	734.78	9/3/2020	*44.70*	*45.10*	0.40	689.97
RW-06	734.78	9/5/2020	*38.33*	*43.73*	5.40	695.00
RW-06	734.78	9/8/2020	45.22	45.50	0.28	689.48
RW-06	734.78	9/9/2020	37.42	43.32	5.90	695.78
RW-06	734.78	9/11/2020	39.30	42.55	3.25	694.61
RW-06	734.78	9/12/2020	38.35	41.70	3.35	695.53
RW-06	734.78	9/14/2020	37.25	42.00	4.75	696.26
RW-06	734.78	9/18/2020	38.90	43.15	4.25	694.74
RW-06	734.78	9/28/2020	36.05	47.53	11.48	695.65
RW-06	734.78	10/2/2020	37.00	43.50	6.50	696.04
RW-06	734.78	10/5/2020	36.95	44.47	7.52	695.81
RW-06	734.78	10/19/2020	36.76	47.73	10.97	695.08
RW-06	734.78	11/9/2020	37.50	46.91	9.41	694.76
RW-06	734.78	11/23/2020	37.80	46.80	9.00	694.57
RW-06	734.78	12/26/2020	28.07	36.03	7.96	704.58

Table 3
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-07	726.92	10/21/2020	32.80	46.13	13.33	690.55
RW-07	726.92	12/26/2020	31.87	33.51	1.64	694.61
RW-08	730.40	9/6/2020	ND	38.36	N/A	692.04
RW-08	730.40	9/8/2020	ND	38.32	N/A	692.08
RW-08	730.40	9/14/2020	ND	31.89	N/A	698.51
RW-08	730.40	10/9/2020	ND	31.66	N/A	698.74
RW-08	730.40	10/19/2020	32.21	35.93	3.72	697.20
RW-08	730.40	11/9/2020	ND	33.42	N/A	696.98
RW-08	730.40	11/23/2020	33.56	35.98	2.42	696.20
RW-08	730.40	12/26/2020	ND	33.75	N/A	696.65
RW-09	732.39	9/1/2020	29.95	39.55	9.60	699.87
RW-09	732.39	9/3/2020	37.55	37.85	0.30	694.76
RW-09	732.39	9/5/2020	29.88	41.42	11.54	699.42
RW-09	732.39	9/8/2020	30.50	38.05	7.55	699.87
RW-09	732.39	9/9/2020	30.20	40.10	9.90	699.54
RW-09	732.39	9/12/2020	31.07	39.46	8.39	699.07
RW-09	732.39	9/14/2020	30.15	37.85	7.70	700.18
RW-09	732.39	9/18/2020	31.30	37.50	6.20	699.43
RW-09	732.39	9/28/2020	37.70	38.53	0.83	694.46
RW-09	732.39	10/2/2020	30.10	42.80	12.70	698.89
RW-09	732.39	10/7/2020	31.10	40.20	9.10	698.85
RW-09	732.39	10/19/2020	31.13	42.88	11.75	698.11
RW-09	732.39	11/9/2020	32.05	42.90	10.85	697.43
RW-09	732.39	11/23/2020	32.31	42.93	10.62	697.24
RW-09	732.39	12/26/2020	31.02	39.58	8.56	699.08

Table 3
Summary of Recovery Well Gauging Data

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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-10	734.38	12/26/2020	ND	30.56	N/A	703.82
RW-11	725.94	9/6/2020	32.23	34.39	2.16	693.13
RW-11	725.94	9/8/2020	31.60	32.80	1.20	694.02
RW-11	725.94	9/14/2020	28.85	31.62	2.77	696.35
RW-11	725.94	9/18/2020	34.00	34.00	0.00	691.94
RW-11	725.94	9/28/2020	29.90	31.90	2.00	695.50
RW-11	725.94	10/2/2020	32.30	32.60	0.30	693.56
RW-11	725.94	10/5/2020	27.70	34.10	6.40	696.53
RW-11	725.94	10/19/2020	27.70	31.27	3.57	697.28
RW-11	725.94	11/9/2020	28.33	31.14	2.81	696.86
RW-11	725.94	11/23/2020	28.61	29.80	1.19	697.01
RW-11	725.94	10/21/2020	27.70	31.27	3.57	697.28
RW-11	725.94	12/26/2020	29.05	32.58	3.53	695.94
RW-12	726.61	9/5/2020	31.45	33.82	2.37	694.53
RW-12	726.61	9/6/2020	34.95	35.14	0.19	691.61
RW-12	726.61	9/8/2020	34.20	36.10	1.90	691.90
RW-12	726.61	9/9/2020	34.24	36.65	2.41	691.73
RW-12	726.61	9/10/2020	34.70	35.83	1.13	691.61
RW-12	726.61	9/12/2020	32.89	34.35	1.46	693.33
RW-12	726.61	9/14/2020	31.81	36.18	4.37	693.63
RW-12	726.61	9/18/2020	32.35	34.60	2.25	693.66
RW-12	726.61	9/28/2020	29.43	36.91	7.48	695.18
RW-12	726.61	10/2/2020	31.10	36.40	5.30	694.09
RW-12	726.61	10/6/2020	29.78	37.75	7.97	694.70
RW-12	726.61	10/19/2020	30.35	37.04	6.69	694.47
RW-12	726.61	11/9/2020	31.21	37.08	5.87	693.83
RW-12	726.61	11/23/2020	31.53	37.08	5.55	693.60
RW-12	726.61	12/26/2020	31.00	35.51	4.51	694.40

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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-13	732.30	12/26/2020	ND	31.85	N/A	700.45
RW-14	732.14	9/6/2020	27.12	39.68	12.56	701.65
RW-14	732.14	9/8/2020	27.15	36.25	9.10	702.55
RW-14	732.14	9/10/2020	27.95	35.05	7.10	702.29
RW-14	732.14	9/12/2020	27.40	38.95	11.55	701.65
RW-14	732.14	9/14/2020	27.68	39.15	11.47	701.39
RW-14	732.14	9/18/2020	29.15	39.20	10.05	700.30
RW-14	732.14	9/28/2020	29.30	39.93	10.63	699.99
RW-14	732.14	10/2/2020	29.63	39.95	10.32	699.74
RW-14	732.14	10/6/2020	29.90	40.00	10.10	699.53
RW-14	732.14	10/19/2020	30.60	39.94	9.34	699.04
RW-14	732.14	11/9/2020	31.69	40.10	8.41	698.20
RW-14	732.14	11/23/2020	32.09	40.05	7.96	697.92
RW-14	732.14	12/26/2020	33.11	38.57	5.46	697.56
RW-15	723.99	9/6/2020	34.07	34.10	0.03	689.91
RW-15	723.99	9/8/2020	34.15	34.17	0.02	689.83
RW-15	723.99	9/14/2020	34.25	34.29	0.04	689.73
RW-15	723.99	9/28/2020	34.62	34.68	0.06	689.35
RW-15	723.99	10/9/2020	ND	34.98	N/A	689.01
RW-15	723.99	10/19/2020	35.02	35.12	0.10	688.94
RW-15	723.99	11/9/2020	35.09	35.29	0.20	688.85
RW-15	723.99	11/9/2020	34.94	35.03	0.09	689.03
RW-15	723.99	11/23/2020	ND	45.23	N/A	678.76
RW-15	723.99	12/26/2020	35.01	35.25	0.24	688.92

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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-16	732.10	12/26/2020	31.37	39.10	7.73	698.66
RW-17	729.57	9/6/2020	ND	19.94	N/A	709.63
RW-17	729.57	9/8/2020	ND	27.05	N/A	702.52
RW-17	729.57	9/14/2020	ND	20.05	N/A	709.52
RW-17	729.57	9/28/2020	ND	20.04	N/A	709.53
RW-17	729.57	10/9/2020	ND	20.06	N/A	709.51
RW-17	729.57	10/19/2020	ND	20.06	N/A	709.51
RW-17	729.57	11/9/2020	ND	20.09	N/A	709.48
RW-17	729.57	11/23/2020	ND	20.09	N/A	709.48
RW-17	729.57	12/26/2020	ND	20.11	N/A	709.46
RW-18	737.66	9/8/2020	36.15	40.20	4.05	700.42
RW-18	737.66	9/9/2020	36.40	41.35	4.95	699.93
RW-18	737.66	9/12/2020	36.50	40.00	3.50	700.22
RW-18	737.66	9/14/2020	34.95	42.00	7.05	700.82
RW-18	737.66	9/18/2020	36.55	42.00	5.45	699.65
RW-18	737.66	9/28/2020	35.42	45.45	10.03	699.55
RW-18	737.66	10/2/2020	35.20	47.65	12.45	699.12
RW-18	737.66	10/7/2020	35.70	47.48	11.78	698.80
RW-18	737.66	10/19/2020	36.54	47.75	11.21	698.12
RW-18	737.66	11/9/2020	37.73	47.71	9.98	697.26
RW-18	737.66	11/23/2020	37.86	47.57	9.71	697.20
RW-18	737.66	12/26/2020	36.91	45.38	8.47	698.48
RW-19	722.02	9/8/2020	ND	32.80	N/A	689.22
RW-19	722.02	9/14/2020	ND	32.74	N/A	689.28
RW-19	722.02	9/28/2020	ND	32.92	N/A	689.10
RW-19	722.02	10/9/2020	ND	33.23	N/A	688.79
RW-19	722.02	10/19/2020	ND	33.28	N/A	688.74
RW-19	722.02	11/9/2020	33.28	33.30	0.02	688.73
RW-19	722.02	11/9/2020	33.06	33.16	0.10	688.93
RW-19	722.02	11/23/2020	ND	33.22	N/A	688.80
RW-19	722.02	12/26/2020	33.09	33.29	0.20	688.88

Table 3
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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-20	731.69	12/26/2020	31.84	36.35	4.51	698.64
RW-21	731.68	9/13/2020	28.50	42.55	14.05	699.42
RW-21	731.68	9/14/2020	30.72	36.55	5.83	699.40
RW-21	731.68	9/18/2020	31.30	38.00	6.70	698.59
RW-21	731.68	9/28/2020	30.08	41.40	11.32	698.57
RW-21	731.68	10/2/2020	30.28	41.15	10.87	698.49
RW-21	731.68	10/6/2020	30.40	41.55	11.15	698.30
RW-21	731.68	10/19/2020	30.13	45.10	14.97	697.55
RW-21	731.68	11/9/2020	31.09	44.70	13.61	696.95
RW-21	731.68	11/23/2020	31.50	42.64	11.14	697.20
RW-21	731.68	12/26/2020	32.40	40.56	8.16	697.10
RW-22	726.60	9/10/2020	25.62	39.00	13.38	697.40
RW-22	726.60	9/12/2020	26.70	31.62	4.92	698.58
RW-22	726.60	9/14/2020	25.55	30.85	5.30	699.63
RW-22	726.60	9/18/2020	26.10	32.10	6.00	698.89
RW-22	726.60	9/28/2020	26.20	30.75	4.55	699.18
RW-22	726.60	10/2/2020	25.55	33.00	7.45	699.06
RW-22	726.60	10/5/2020	25.53	34.50	8.97	698.67
RW-22	726.60	10/19/2020	25.93	37.32	11.39	697.62
RW-22	726.60	11/9/2020	26.89	36.99	10.10	697.01
RW-22	726.60	11/23/2020	27.29	36.70	9.41	696.79
RW-22	726.60	12/26/2020	26.43	27.75	1.32	699.82
RW-23	724.85	9/13/2020	31.80	41.73	9.93	690.39
RW-23	724.85	9/14/2020	31.79	41.68	9.89	690.41
RW-23	724.85	9/18/2020	32.95	39.35	6.40	690.18
RW-23	724.85	9/28/2020	32.91	39.45	6.54	690.19
RW-23	724.85	10/2/2020	33.39	39.31	5.92	689.87
RW-23	724.85	10/6/2020	33.25	39.25	6.00	689.99
RW-23	724.85	10/19/2020	33.30	39.26	5.96	689.95
RW-23	724.85	11/9/2020	33.39	39.03	5.64	689.95
RW-23	724.85	11/23/2020	33.35	38.97	5.62	689.99
RW-23	724.85	12/26/2020	31.75	36.77	5.02	691.75

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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-24	734.33	12/26/2020	34.85	36.16	1.31	699.13
RW-25	724.92	9/13/2020	33.75	37.21	3.46	690.24
RW-25	724.92	9/14/2020	33.08	38.85	5.77	690.29
RW-25	724.92	9/18/2020	34.88	35.80	0.92	689.79
RW-25	724.92	9/28/2020	34.86	35.90	1.04	689.78
RW-25	724.92	10/2/2020	34.90	36.55	1.65	689.57
RW-25	724.92	10/6/2020	34.90	36.40	1.50	689.61
RW-25	724.92	10/19/2020	33.83	39.91	6.08	689.46
RW-25	724.92	11/9/2020	34.45	38.55	4.10	689.37
RW-25	724.92	11/23/2020	34.58	38.10	3.52	689.39
RW-25	724.92	12/26/2020	31.30	36.50	5.20	692.22
RW-26	729.28	9/11/2020	29.80	30.35	0.55	699.34
RW-26	729.28	9/12/2020	29.85	30.42	0.57	699.28
RW-26	729.28	9/14/2020	29.79	30.41	0.62	699.33
RW-26	729.28	9/18/2020	30.31	32.20	1.89	698.47
RW-26	729.28	9/28/2020	27.60	29.25	1.65	701.24
RW-26	729.28	10/2/2020	27.17	28.35	1.18	701.80
RW-26	729.28	10/5/2020	27.01	29.15	2.14	701.70
RW-26	729.28	10/19/2020	26.39	29.02	2.63	702.19
RW-26	729.28	11/9/2020	26.82	29.60	2.78	701.72
RW-26	729.28	11/23/2020	27.20	29.49	2.29	701.47
RW-26	729.28	12/26/2020	27.62	28.53	0.91	701.42
RW-27	722.46	9/13/2020	ND	35.08	N/A	687.38
RW-27	722.46	9/14/2020	ND	35.09	N/A	687.37
RW-27	722.46	9/18/2020	ND	35.20	N/A	687.26
RW-27	722.46	10/9/2020	ND	35.23	N/A	687.23
RW-27	722.46	10/19/2020	35.23	35.43	0.20	687.18
RW-27	722.46	11/9/2020	34.36	39.20	4.84	686.80
RW-27	722.46	11/23/2020	31.27	40.65	9.38	688.68
RW-27	722.46	12/26/2020	29.90	44.02	14.12	688.78

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RW-28	733.88	9/11/2020	38.13	39.31	1.18	695.43
RW-28	733.88	9/12/2020	ND	37.12	N/A	696.76
RW-28	733.88	9/13/2020	35.84	45.27	9.43	695.51
RW-28	733.88	9/14/2020	34.45	48.33	13.88	695.71
RW-28	733.88	9/18/2020	35.70	36.25	0.55	698.03
RW-28	733.88	9/28/2020	33.95	35.85	1.90	699.42
RW-28	733.88	10/2/2020	34.05	35.47	1.42	699.45
RW-28	733.88	10/5/2020	34.15	35.50	1.35	699.36
RW-28	733.88	10/19/2020	31.30	42.74	11.44	699.51
RW-28	733.88	11/9/2020	32.60	40.70	8.10	699.11
RW-28	733.88	11/23/2020	33.00	40.10	7.10	698.98
RW-28	733.88	12/26/2020	38.17	45.08	6.91	693.86
RW-29	721.84	9/13/2020	26.80	45.11	18.31	690.14
RW-29	721.84	9/14/2020	28.36	38.80	10.44	690.69
RW-29	721.84	9/18/2020	29.00	43.00	14.00	689.09
RW-29	721.84	9/28/2020	26.95	35.85	8.90	692.51
RW-29	721.84	10/2/2020	27.10	47.00	19.90	689.42
RW-29	721.84	10/6/2020	27.32	45.90	18.58	689.55
RW-29	721.84	10/19/2020	27.68	47.65	19.97	688.82
RW-29	721.84	11/9/2020	28.35	47.89	19.54	688.26
RW-29	721.84	11/23/2020	28.65	48.30	19.65	687.93
RW-29	721.84	12/26/2020	27.56	44.11	16.55	689.85
RW-30	719.60	9/14/2020	23.60	26.95	3.35	695.10
RW-30	719.60	9/28/2020	22.33	37.10	14.77	693.32
RW-30	719.60	10/2/2020	24.30	31.40	7.10	693.40
RW-30	719.60	10/6/2020	24.92	33.15	8.23	692.48
RW-30	719.60	10/19/2020	22.26	41.10	18.84	692.30
RW-30	719.60	11/9/2020	22.74	41.49	18.75	691.84
RW-30	719.60	11/23/2020	23.15	41.50	18.35	691.54
RW-30	719.60	12/26/2020	21.67	39.21	17.54	693.24
RW-31	716.23	9/14/2020	27.38	28.66	1.28	688.51
RW-31	716.23	9/28/2020	23.25	43.45	20.20	687.57
RW-31	716.23	10/2/2020	26.30	35.40	9.10	687.49
RW-31	716.23	10/6/2020	24.99	36.40	11.41	688.18
RW-31	716.23	10/19/2020	22.55	46.14	23.59	687.37
RW-31	716.23	11/9/2020	22.74	48.18	25.44	686.68
RW-31	716.23	11/23/2020	22.91	NW	>25.16	N/A
RW-31	716.23	12/26/2020	21.08	46.13	25.05	688.44
RW-32	716.45	9/28/2020	26.65	38.78	12.13	686.55
RW-32	716.45	10/2/2020	27.50	36.95	9.45	686.42
RW-32	716.45	10/6/2020	27.31	33.30	5.99	687.53
RW-32	716.45	10/8/2020	27.31	33.30	5.99	687.53
RW-32	716.45	10/19/2020	26.89	39.24	12.35	686.25
RW-32	716.45	11/9/2020	27.04	40.14	13.10	685.90
RW-32	716.45	11/23/2020	27.15	40.37	13.22	685.76
RW-32	716.45	12/26/2020	25.31	39.55	14.24	687.32

Table 3
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-33	716.59	12/26/2020	31.33	32.34	1.01	684.99
RW-34	735.92	9/28/2020	33.95	43.25	9.30	699.48
RW-34	735.92	10/2/2020	42.78	43.50	0.72	692.94
RW-34	735.92	10/7/2020	42.59	43.31	0.72	693.13
RW-34	735.92	10/19/2020	42.64	43.73	1.09	692.98
RW-34	735.92	11/9/2020	42.21	45.75	3.54	692.76
RW-34	735.92	11/23/2020	41.91	46.26	4.35	692.84
RW-34	735.92	12/26/2020	39.03	48.84	9.81	694.26
RW-35	740.16	10/2/2020	41.25	53.80	12.55	695.55
RW-35	740.16	10/7/2020	42.31	47.66	5.35	696.42
RW-35	740.16	10/19/2020	40.44	53.16	12.72	696.32
RW-35	740.16	11/9/2020	40.87	53.48	12.61	695.92
RW-35	740.16	11/23/2020	41.56	53.07	11.51	695.52
RW-35	740.16	12/26/2020	41.96	54.60	12.64	694.82
RW-36	743.69	10/2/2020	45.00	58.63	13.63	695.04
RW-36	743.69	10/7/2020	45.22	56.81	11.59	695.37
RW-36	743.69	10/19/2020	45.39	59.40	14.01	694.55
RW-36	743.69	11/9/2020	45.84	58.68	12.84	694.42
RW-36	743.69	11/23/2020	46.10	59.50	13.40	694.01
RW-36	743.69	12/26/2020	44.45	56.67	12.22	695.97
RW-37	744.77	10/8/2020	51.74	53.64	1.90	692.52
RW-37	744.77	10/19/2020	52.15	52.87	0.72	692.43
RW-37	744.77	11/9/2020	51.95	53.65	1.70	692.37
RW-37	744.77	11/23/2020	52.16	53.30	1.14	692.31
RW-37	744.77	12/26/2020	49.85	52.54	2.69	694.20
RW-38	739.72	10/2/2020	38.70	49.00	10.30	698.27
RW-38	739.72	10/7/2020	39.38	45.53	6.15	698.70
RW-38	739.72	10/19/2020	38.15	49.55	11.40	698.52
RW-38	739.72	11/9/2020	39.17	49.60	10.43	697.76
RW-38	739.72	11/23/2020	39.71	NW	>9.97	N/A
RW-38	739.72	12/26/2020	38.12	47.70	9.58	699.04
RW-39	721.77	10/8/2020	ND	32.44	N/A	689.33
RW-39	721.77	10/19/2020	32.49	32.66	0.17	689.24
RW-39	721.77	11/9/2020	32.47	32.64	0.17	689.26
RW-39	721.77	11/23/2020	ND	32.41	N/A	689.36
RW-39	721.77	12/26/2020	32.34	32.49	0.15	689.39
RW-40	722.94	10/8/2020	ND	33.34	N/A	689.60
RW-40	722.94	10/19/2020	ND	33.50	N/A	689.44
RW-40	722.94	11/9/2020	ND	33.42	N/A	689.52
RW-40	722.94	11/23/2020	ND	32.57	N/A	690.37
RW-40	722.94	12/26/2020	ND	33.30	N/A	689.64

Table 3
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-SR2448
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-41	735.51	11/23/2020	ND	Dry	N/A	Dry
RW-41	735.51	12/26/2020	ND	Dry	N/A	Dry
RW-42	733.80	11/23/2020	ND	Dry	N/A	Dry
RW-42	733.80	12/26/2020	ND	Dry	N/A	Dry
RW-43	737.70	11/23/2020	37.26	41.71	4.45	699.25
RW-43	737.70	12/26/2020	ND	38.56	N/A	699.14
RW-44	738.21	11/23/2020	ND	Dry	N/A	Dry
RW-44	738.21	12/26/2020	ND	Dry	N/A	Dry
RW-45	722.04	11/23/2020	31.05	32.01	0.96	690.73
RW-45	722.04	12/26/2020	31.04	31.48	0.44	690.88
RW-46	716.92	11/23/2020	23.02	NW	>20.99	N/A
RW-46	716.92	12/26/2020	24.10	43.70	19.60	687.58
RW-47	NM	12/26/2020	27.60	40.80	13.20	N/A
RW-48	NM	12/26/2020	33.82	34.54	0.72	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 4
Summary of Slug Test Data

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

Well ID	Run No.	K (ft./day)	Avg K (ft./day)	Direction From Release
MW-1	1	0.438	--	
MW-1	2	0.444	--	
			0.44	Northwest
MW-3	1	0.243	--	
MW-3	2	0.193	--	
			0.22	North
MW-8	1	0.559	--	
MW-8	2	0.678	--	
			0.62	South
MW-15	1	0.408	--	
MW-15	2	0.372	--	
			0.39	West
MW-16	1	0.41	--	
MW-16	2	0.621	--	
			0.52	Sothwest
MW-21	1	0.956	--	
MW-21	2	0.287	--	
			0.62	South-southwest
MW-25	1	0.702	--	
MW-25	2	1.44	--	
			1.07	Northeast
MW-27	1	0.466	--	
MW-27	2	0.406	--	
			0.44	North-northeast
MW-34	1	0.201	--	
MW-34	2	0.309	--	
			0.26	North
MW-37	1	0.28	--	
MW-37	2	0.324	--	
			0.30	North-northwest
MW-38	1	1	--	
MW-38	2	0.683	--	
			0.84	Northeast
MW-41	1	0.328	--	
MW-41	2	0.697	--	
			0.51	East
MW-48	1	1.26	--	
MW-48	2	1.11	--	
			1.19	West

Table 4
Summary of Slug Test Data

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

Well ID	Run No.	K (ft./day)	Avg K (ft./day)	Direction From Release
MW-49	1	2.16	--	
MW-49	2	2.48	--	
			2.32	South-southeast
MW-50	1	0.273	--	
MW-50	2	0.355	--	
			0.31	South-southeast
MW-52	1	0.751	--	
MW-52	2	0.67	--	
			0.71	West
Site Wide K (ft./day)			0.67	
Average K (ft./day) North of Release			0.42	
Average K (ft./day) South of Release			0.80	--

Notes:
K = Hydraulic conductivity
ft./day = feet per day

Table 5
Summary of Delineation Soil Sampling Results

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

Lab Report	Sample ID	Well ID	Sample Date	MADEP VPH (mg/kg)				Volatile Organic Compounds (EPA 8260D) (µg/kg)																		
				Aliphatic (C05-C08)	Aliphatic (C09-C12)	Aromatic (C09-C10), Unadjusted	Total VPH	Benzene	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	4-Methyl-2-pentanone (MIBK)	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene
		Soil-to-Water MSCCs		68	540	NE	NE	5.6	16,000	4,300	3,300	370	4,900	1,700	120	20	400	91	160	1,700	4,300	8,500	8,300	4,600	NE	NE
		Residential MSCCs		939	1,500	31,000	NE	18,000	9,385,000	626,000	626,000	156,000	1,560,000	1,564,000	100,000	85,000	1,200,000	350,000	313,000	626,000	1,200,000	782,000	782,000	3,129,000	NE	NE
		Industrial / Commercial MSCCs		24,528	40,000	810,000	NE	164,000	245,280,000	16,350,000	16,350,000	4,088,000	40,000,000	40,880,000	4,000,000	763,000	32,000,000	3,100,000	8,176,000	16,350,000	32,000,000	20,440,000	20,440,000	81,760,000	NE	NE
92494208	MW-1 (17.5-20)	MW-01	09/04/2020	<7.36	<7.36	<7.36	<7.36	<7.2	<145	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<28.9	<72.3	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<14.5	<14.5	<7.2
92494208	MW-1 (20-22.5)	MW-01	09/04/2020	<7.57	<7.57	<7.57	<7.57	<6.3	<127	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25.3	<63.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.7	<12.7	<6.3
92492458	MW-2 (12.5-15)	MW-02	08/25/2020	NA	NA	NA	NA	<3.2	<64.6	<3.2	<3.2	<3.2	<3.2	<3.2	<3.2	<12.9	<32.3	<3.2	5.6	<3.2	4	14	3.5	12	8.3	3.6
92492458	MW-2 (22.5-25)	MW-02	08/25/2020	NA	NA	NA	NA	<4.6	<91.3	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<18.3	<45.7	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.1	<9.1	<4.6
92492672	MW-3 (15-17.5)	MW-03	08/25/2020	NA	NA	NA	NA	<5	<99.8	<5	<5	<5	<5	<5	5.5	<20	<49.9	<5	<5	<5	<5	<5	<5	<10	<10	<5
92492672	MW-3 (2.5-5)	MW-03	08/25/2020	NA	NA	NA	NA	<5.5	<110	<5.5	<5.5	<5.5	<5.5	<5.5	15.9	<22	<55.1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<11	<5.5
92493060	MW-4 (15-17.5)	MW-04	08/28/2020	<7.52	<7.52	<7.52	<7.52	<4.9	<98.1	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<19.6	<49	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<9.8	<4.9
92493060	MW-4 (5-7.5)	MW-04	08/28/2020	<8.46	<8.46	<8.46	<8.46	<5.5	<110	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<22.1	<55.1	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11	<11	<5.5
92493075	MW-5 (20-22.5)	MW-05	08/28/2020	<7.72	<7.72	<7.72	<7.72	<4.9	<97.6	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<19.5	<48.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<9.8	<4.9
92493075	MW-5 (7.5-10)	MW-05	08/28/2020	<8.26	<8.26	<8.26	<8.26	<5	<101	<5	<5	<5	<5	<5	<5	<20.1	<50.3	<5	<5	<5	<5	<5	<5	<10.1	<10.1	<5
92493224	MW-6 (1-2.5)	MW-06	08/29/2020	<7.86	<7.86	<7.86	<7.86	<7.7	<154	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<30.9	<77.1	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<15.4	<15.4	<7.7
92493224	MW-6 (15-17.5)	MW-06	08/29/2020	<7.51	<7.51	<7.51	<7.51	<5.7	<114	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<22.7	<56.8	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11.4	<11.4	<5.7
92493224	MW-7 (15-17.5)	MW-07	08/30/2020	<6.96	<6.96	<6.96	<6.96	<5.1	<103	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<20.5	<51.3	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10.3	<10.3	<5.1
92493224	MW-7 (5-7.5)	MW-07	08/30/2020	<8.26	<8.26	<8.26	<8.26	<5	<101	<5	<5	<5	<5	<5	<5	<20.2	<50.4	<5	<5	<5	<5	<5	<5	<10.1	<10.1	<5
92493110	RW-07_(32.5-35)	MW-08	08/29/2020	<5.89	<5.89	<5.89	<5.89	<4.9	<98.6	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<19.7	<49.3	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.9	<9.9	<4.9
92493224	MW-9 (20-22.5)	MW-09	08/31/2020	<7.53	<7.53	<7.53	<7.53	<4.9	<97.8	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<19.6	<48.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<9.8	<4.9
92493224	MW-9 (7.5-10)	MW-09	08/31/2020	<8.39	<8.39	<8.39	<8.39	<5.4	<108	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<21.5	<53.9	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<10.8	<10.8	<5.4
92493403	MW-10 (22.5-25)	MW-10	08/31/2020	<5.34	<5.34	<5.34	<5.34	<4.3	<85.1	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<17	<42.6	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<8.5	<8.5	<4.3
92493403	MW-10 (7.5-10)	MW-10	08/31/2020	<9.2	<9.2	<9.2	<9.2	<5.7	<114	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<22.8	<57	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11.4	<11.4	<5.7
92493992	MW-11_(37.5-40')	MW-11	09/01/2020	<6.16	<6.16	<6.16	<6.16	<1.23	<123	<15.4	<15.4	<1.23	<3.08	<3.08	<6.16	<30.8	<30.8	<1.23	<15.4	<6.16	<6.16	<6.16	<6.16	<8.01	<4.93	<3.08
92492881	SB-118 (2.5-5)	MW-12	08/27/2020	<7.88	<7.88	<7.88	<7.88	<4.6	<91.7	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<18.3	<45.8	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<9.2	<9.2	<4.6
92492881	SB-118 (20-22.5)	MW-12	08/27/2020	<7.11	<7.11	<7.11	<7.11	<4.9	<97.4	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<19.5	<48.7	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.7	<9.7	<4.9
92493992	MW-13_(25-27.5)	MW-13	09/01/2020	<8.04	<8.04	<8.04	<8.04	<1.61	<161	<20.2	<20.2	<1.61	<4.02	<4.02	<8.04	<40.2	<40.2	<1.61	<20.2	<8.04	<8.04	<8.04	<8.04	<10.5	<6.44	<4.02
92493992	B-01_MW-14_(25'-27.5')	MW-14	09/01/2020	<7.56	<7.56	<7.56	<7.56	<5.3	<106	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<21.1	<52.9	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<10.6	<10.6	<5.3
92493643	MW-15 (27.5-29)	MW-15	09/02/2020	<7.69	<7.69	<7.69	<7.69	<4.9	<97.3	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<19.5	<48.7	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.7	<9.7	<4.9
92493643	MW-15 (5-7.5)	MW-15	09/02/2020	<8.27	<8.27	<8.27	<8.27	<5.3	<105	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<21	<52.5	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<10.5	<10.5	<5.3
92493992	B-04_MW-16_(25'-27.5')	MW-16	09/02/2020	<7.69	<7.69	<7.69	<7.69	<6	<121	<6	<6	<6	<6	<6	<6	<24.1	<60.3	<6	<6	<6	<6	<6	<6	<12.1	<12.1	<6
92493992	MW-17_(27.5-30)	MW-17	09/02/2020	<8.34	<8.34	<8.34	<8.34	<1.67	<167	<20.8	<20.8	<1.67	<4.17	<4.17	<8.34	<41.7	<41.7	<1.67	<20.8	<8.34	<8.34	<8.34	<8.34	11.3	8.21	<4.17
92493861	BH-03 (10-12.5)	MW-18	09/02/2020	<8.17	<8.17	<8.17	<8.17	<7	<140	<7	<7	<7	<7	<7	<7	<28.1	<70.2	<7	<7	<7	<7	<7	<7	<14	<14	<7
92493861	BH-03 (32.5-35)	MW-18	09/02/2020	<6.95	<6.95	<6.95	<6.95	<6.9	<139	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<27.7	<69.3	<6.9	<6.9	<6.9	<6.9	<6.9	<6.9	<13.9	<13.9	<6.9
92493992	MW-19_(25-27.5)	MW-19	09/02/2020	<8.27	<8.27	<8.27	<8.27	<1.65	<165	<20.7	<20.7	<1.65	<4.14	<4.14	<8.27	<41.4	<41.4	<1.65	<20.7	<8.27	<8.27	<8.27	<8.27	<10.8	<6.62	<4.14
92493861	BH-04 (10-12.5)	MW-20	09/02/2020	<7.76	<7.76	<7.76	<7.76	<8.2	<164	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<32.9	<82.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<16.4	<16.4	<8.2
92493861	BH-04 (27.5-29)	MW-20	09/02/2020	<6.38	<6.38	<6.38	<6.38	<7.5	<149	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<29.9	<74.7	<7.5	<7.5	<7.5	<7.5	<7.5	<7.5	<14.9	<14.9	<7.5
92494163	MW-21_(25-27.5)	MW-21	09/03/2020	<7.55	<7.55	<7.55	<7.55	<1.51	<151	<18.9	<18.9	<1.51	<3.77	<3.77	<7.55	<37.7	<37.7	<1.51	<18.9	<7.55	<7.55	<7.55	<7.55	<9.81	<6.04	<3.77
92494208	BH-05 (15-17.5)	MW-22	09/03/2020	<7.7	<7.7	<7.7	<7.7	<9.2	<184	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<36.8	<92	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<18.4	<18.4	<9.2
92494208	BH-05 (5.75-7.5)	MW-22	09/03/2020	<8.1	<8.1	<8.1	<8.1	<5.9	<118	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<23.5	<58.8	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<11.8	<11.8	<5.9
92494163	MW-23_(25-27.5)	MW-23	09/03/2020	<7.87	<7.87	<7.87	<7.87	<6	<120	<6	<6	<6	<6	<6	<6	<24.1	<60.2	<6	<6	<6	<6	<6	<6	<12	<12	<6
92494208	BH-06 (22.5-25)	MW-24	09/03/2020	<6.76	<6.76	<6.76	<6.76	<6	<120	<6	<6	<6	<6	<6	<6	<24	<60.1	<6	<6	<6	<6	<6	<6	<12	<12	<6
92494208	BH-06 (32.5-35)	MW-24	09/03/2020	<7.08	<7.08	<7.08	<7.08	<6.7	<133	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<26.7	<66.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13.3	<13.3	<6.7
92494208	BH-07 (2.5-5)	MW-25	09/04/2020	<7.84	<7.84	<7.84	<7.84	<7	<139	<7	<7	<7	<7	<7	<7	<27.9	<69.7	<7	<7	<7	<7	<7	<7	<13.9	<13.9	<7
92494208	BH-07 (30-32.5)	MW-25	09/04/2020	<8.02	<8.02	<8.02	<8.02	<6.3	<127	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25.3	<63.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.7	<12.7	<6.3
92494208	BH-08 (20-22.5)	MW-26	09/04/2020	<7.03	<7.03	<7.03	<7.03	<6	<120	<6	<6	<6	<6	<6	<6	<23.9	<59.8	<6	<6	<6	<6	<6	<6	<12	<12	<6
92494208	BH-08 (22.5-25)	MW-26	09/04/2020	<6.57	<6.57	<6.57	<6.57	<6	<121	<6	<6	<6	<6	<6	<6	<24.2	<60.5	<6	<6	<6	<6	<6	<6	<12.1	<12.1	<6
92494609	BH-11 (2.5-5)	MW-27	09/05/2020	<8.86	<8.86	<8.86	<8.86	<7.7	<153	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<30.7	<76.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<15.3	<15.3	<7.7
92494609	BH-11 (22.5-25)	MW-27	09/05/2020	<6.84	<6.84	<6.84	<6.84	<6.3	<125	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25.1	<62.6	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.5	<12.5	<6.3
92494924	BH-12 (17.5-20)	MW-28	09/05/2020	<7.38	<7.38	<7.38	<7.38	<6.3	<125	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<62.6	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.5	<12.5	<6.3
92494924	BH-12 (22.5-25)	MW-28	09/05/2020	<7.87	<7.87	<7.87	<7.87	<6.4	<129	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<25.8	<64.5	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<12.9	<12.9	<6.4
92494334	MW29-27.5-30'	MW-29	09/06/2020	<9.53	<9.53	<9.53	<9.53	<8.6	<173	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<34.6	<86.4	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<17.3	<17.3	<8.6
92494334	ER9 66-22.5-25'	MW-30	09/06/2020	<7.59	<7.59	<7.59	<7.59	<4.9	<97.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<19.6	<48.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<9.8	<4.9
92494334	MW31-25-27.5'	MW-31	09/07/2020	<8.26	<8.26	<8.26	11.6	<5.0	<101	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20.1	<50.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.1	<10.1	<5.0
92494609	BH-15 (12.5-15)	MW-32	09/07/2020	<8.49	<8.49	<8.49	<8.49	<6.2	<124	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<24.9	<62.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12.4	<12.4	<6.2
92494609	BH-15 (7.5-10)	MW-32	09/07/2020	<7.77	<7.77	<7.77	<7.77	<5.9	<118	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<23.5	<58.8	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<11.8	<11.8	<5.9
92494609	BH-14 (10-12.5)	MW-33	09/05/2020	<7.09	<7.09	<7.09	<7.09	<5.9	<118	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<23.6	<59.1	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<11.8	<11.8	<5.9
92494609	BH-14 (2.5-5)	MW-33	09/05/2020	<8.92	<8.92	<8.92	<8.92	<8	<159	<8	<8	<8	<8	<8	<8	<31.9	<79.7	<8	<8	<8	<8	<8	<8	<15.9	<15.9	<8
92494609	BH-13 (1-2.5)	MW-34	09/05/2020	<8.28	<8.28	<8.28	<8.28	<8.6	<173	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<34.6	<86.4	<8.6	<8.6	<8.6	<8.6	<8.6	<8.6	<17.3	<17.3	<8.6
92494609	BH-13 (5-7.5)	MW-34	09/05/2020	<7.57	<7.57	<7.57	<7.57	<6.4	<127	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<25.5	<63.7	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<12.7	<12.7	<6.4
92494609	BH-16 (20-22.5)	MW-35	09/07/2020	<8.28	<8.28	<8.28	<8.28	<6.3	<125	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<62.5	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.5	<12.5	<6.3
92494609	BH-16 (7.5-10)	MW-35	09/07/2020	<7.21	<7.21	<7.21	<7.21	<6.5	<129	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<25.9	<64.7	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<12.9	<12.9	<6.5
92494609	BH-17 (1-2.5)	MW-36	09/08/2020	<9.09	<9.09	<9.09	<9.09	<11.5	<230	<11.5	<11.5	<11.5	<11.5	<11.5	<11.5	<46	<115	<11.5	<11.5	<11.5	<11.5	<11.5	<11.5	<23	<23	<11.5
92494609	BH-17 (22.5-25)	MW-36	09/08/2020	<7.84	<7.84	<7.84	<7.84	<7.1	<141	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<28.3	<70.7	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14.1	<14.1	<7.1

Table 5
Summary of Delineation Soil Sampling Results

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

Lab Report	Sample ID	Well ID	Sample Date	MADEP VPH (mg/kg)				Volatile Organic Compounds (EPA 8260D) (µg/kg)																		
				Aliphatic (C05-C08)	Aliphatic (C09-C12)	Aromatic (C09-C10), Unadjusted	Total VPH	Benzene	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	4-Methyl-2-pentanone (MIBK)	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene
		Soil-to-Water MSCCs		68	540	NE	NE	5.6	16,000	4,300	3,300	370	4,900	1,700	120	20	400	91	160	1,700	4,300	8,500	8,300	4,600	NE	NE
		Residential MSCCs		939	1,500	31,000	NE	18,000	9,385,000	626,000	626,000	156,000	1,560,000	1,564,000	100,000	85,000	1,200,000	350,000	313,000	626,000	1,200,000	782,000	782,000	3,129,000	NE	NE
		Industrial / Commercial MSCCs		24,528	40,000	810,000	NE	164,000	245,280,000	16,350,000	16,350,000	4,088,000	40,000,000	40,880,000	4,000,000	763,000	32,000,000	3,100,000	8,176,000	16,350,000	32,000,000	20,440,000	20,440,000	81,760,000	NE	NE
92494609	BH-18 (22.5-25)	MW-37	09/08/2020	<7.43	<7.43	<7.43	<7.43	<6.6	<132	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<26.3	<65.8	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<13.2	<13.2	<6.6
92494609	BH-18 (5-7.5)	MW-37	09/08/2020	<8.5	<8.5	<8.5	<8.5	<6.4	<128	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<25.7	<64.2	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<12.8	<12.8	<6.4
92494587	MW 38-30-32.5	MW-38	09/08/2020	<9.04	<9.04	<9.04	<9.04	<5.7	<114	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<22.8	<57.0	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11.4	<11.4	<5.7
92494858	MW-39 (7.5'-10')	MW-39	09/08/2020	<9.29	3.89	6.08	9.97	<9.6	<192	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<38.3	<95.9	<9.6	<9.6	<9.6	7.8	<9.6	<9.6	<19.2	<19.2	<9.6
92494925	BH-19 (20-22.5)	MW-40	09/08/2020	<8.12	<8.12	<8.12	<8.12	<6.7	<134	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<26.7	<66.8	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13.4	<13.4	<6.7
92494925	BH-19 (25-27.5)	MW-40	09/08/2020	<7.44	<7.44	<7.44	<7.44	<7.1	<142	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<28.4	<71	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14.2	<14.2	<7.1
92494609	BH-20 (40-44)	MW-41	09/08/2020	<7.13	<7.13	<7.13	<7.13	<6.4	<128	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<25.7	<64.2	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<12.8	<12.8	<6.4
92494609	BH-20 (7.5-10)	MW-41	09/08/2020	<7.45	<7.45	<7.45	<7.45	<8.1	<162	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<32.4	<80.9	<8.1	<8.1	<8.1	<8.1	<8.1	<8.1	<16.2	<16.2	<8.1
92495194	MW-42_(17.5-20)	MW-42	09/10/2020	<6.21	<6.21	<6.21	<6.21	<5.4	<109	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<21.8	<54.4	<5.4	<5.4	<5.4	8.8	15.5	<5.4	20.6	13.3	7.3
92493136	RW-08_(35-37.5)	MW-43	08/30/2020	**11.6**	<7.54	<7.54	NA	<4.8	<96.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<19.4	<48.4	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<9.7	<9.7	<4.8
92495194	MW-44_(10-12.5)	MW-44	09/10/2020	<6.39	<6.39	<6.39	<6.39	<6.0	<120	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<23.9	<59.8	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<12.0	<12.0	<6.0
92495194	MW-45_(25-27.5)	MW-45	09/11/2020	<7.18	<7.18	<7.18	<7.18	<6.3	<126	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25.2	<63.0	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.6	<12.6	<6.3
92495313	MW-46_(25-27.5)	MW-46	09/12/2020	<7.89	**24.1**	<7.89	**32**	<5.8	<116	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<23.2	<57.9	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<11.6	<11.6	<5.8
92495313	MW-47_(25-27)	MW-47	09/12/2020	<8.95	<8.95	<8.95	**13.5**	<5.7	<113	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<22.6	<56.6	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11.3	<11.3	<5.7
92495719	BH-21(12.5-15)	MW-49	09/15/2020	<7.49	<7.49	<7.49	<7.49	<5.5	<111	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<22.1	<55.3	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<11.1	<11.1	<5.5
92495719	BH-21(25-27.5)	MW-49	09/15/2020	<7.53	<7.53	<7.53	<7.53	<5.8	<115	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**99.2**	<57.5	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<11.5	<11.5	<5.8
92495719	BH-22 (17.5-20)	MW-50	09/15/2020	<7.55	<7.55	<7.55	<7.55	<7.4	<149	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<29.8	<74.5	<7.4	<7.4	<7.4	<7.4	<7.4	<7.4	<14.9	<14.9	<7.4
92495719	BH-22 (25-27.5)	MW-50	09/15/2020	<8.73	<8.73	<8.73	<8.73	<6.8	<136	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<27.1	<67.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<13.6	<13.6	<6.8
92496432	MW-5(25-27.5)	MW-51	09/18/2020	<7.30	<7.30	<7.30	<7.30	<5.8	<117	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<23.4	<58.4	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<11.7	<11.7	<5.8
92497523	MW-52 (25-27.5)	MW-52	09/23/2020	<7.62	<7.62	**2.68**	**2.68**	<6.3	<126	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25.1	<62.8	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.6	<12.6	<6.3
92498039	MW-54 (15'-17.5')	MW-54	09/28/2020	<8.26	<8.26	<8.26	<8.26	<5.2	<104	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<20.8	<51.9	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10.4	<10.4	<5.2
92498039	MW-55 (58')	MW-55	09/29/2020	<6.26	<6.26	<6.26	<6.26	<5.0	<99.8	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	<49.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0
92498395	MW-56 @ 15'	MW-56	09/30/2020	<6.86	<6.86	<6.86	<6.86	<5.4	<107	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<21.4	<53.6	<5.4	<5.4	<5.4	<5.4	<5.4	<5.4	<10.7	<10.7	<5.4
92498395	MW-57 @ 12'	MW-57	09/30/2020	<8.05	<8.05	<8.05	<8.05	<5.7	<114	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<22.7	<56.9	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11.4	<11.4	<5.7
92498540	MW-58 @30'	MW-58	10/02/2020	NA	NA	NA	NA	<6.2	<123	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<24.7	<61.7	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<12.3	<12.3	<6.2
92498670	MW-59@30	MW-59	10/02/2020	<5.70	<6.48	**1.95J**	<6.48	<5.7	<113	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<22.6	<56.6	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<11.3	<11.3	<5.7
92498670	MW-60@25-27.5	MW-60	10/03/2020	NA	NA	NA	NA	<6.3	**59.6J**	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	**67.0**	<63.0	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.6	<12.6	<6.3
92512978	MW-64 (36'-38')	MW-64	12/17/2020	<6.60	**6.74**	**11.1**	**17.8**	<6.3	<126	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<25.1	<62.8	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<12.6	<12.6	<6.3
92513387	MW-65 (25')	MW-65	12/22/2020	<7.30	<7.30	<7.30	<7.30	<7.6	<152	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<30.3	<75.9	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<15.2	<15.2	<7.6
92513891	MW-66 40'-42'	MW-66	12/22/2020	<5.83	<5.83	<5.83	<5.83	<1.18	<118	<14.8	<14.8	<1.18	<2.96	<2.96	<5.91	<29.6	<29.6	<1.18	<14.8	<5.91	<5.91	<5.91	<5.91	<7.68	NA	NA
92513380	PMW 67 36-37	MW-67	12/21/2020	<6.21	<6.21	<6.21	<6.21	<1.24	<124	<15.5	<15.5	<1.24	<3.1	<3.1	<6.21	<31	<31	<1.24	<15.5	<6.21	<6.21	<6.21	<6.21	<8.07	NA	NA
92513380	PMW-67 36-37	MW-67	12/21/2020	<6.28	<6.28	<6.28	<6.28	<1.26	<126	<15.7	<15.7	<1.26	<3.14	<3.14	<6.28	<31.4	<31.4	<1.26	<15.7	<6.28	<6.28	<6.28	<6.28	<8.16	NA	NA
92513891	MW-66 40'-42'	MW-68	12/22/2020	<7.96	<7.96	<7.96	<7.96	<1.15	<115	<14.4	<14.4	<1.15	<2.88	<2.88	<5.77	<28.8	<28.8	<1.15	<14.4	<5.77	<5.77	<5.77	<5.77	<7.5	NA	NA
92513891	MW-68 30'-32'	MW-68	12/23/2020	<7.93	<7.93	<7.93	<7.93	<12.4	<247	<12.4	<12.4	<12.4	<12.4	<12.4	<12.4	<49.4	<124	<12.4	<12.4	<12.4	<12.4	<12.4	<12.4	<24.7	<24.7	<12.4
92512978	MW-69 (44'-46')	MW-69	12/15/2020	<6.61	**13.7**	**15**	**32**	<6.7	<133	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<26.6	<66.6	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<13.3	<13.3	<6.7
92492881	RW-4 (15-17.5)	RW-04	08/27/2020	<7.53	<7.53	<7.53	<7.53	<4.7	<95	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<19	<47.5	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.5	<9.5	<4.7
92492881	RW-4 (20.22.5)	RW-04	08/27/2020	<7.37	<7.37	<7.37	<7.37	<4.4	<88.1	<4.4	<4.4	<4.4	**4.6**	<4.4	<4.4	<17.6	<44	<4.4	**7.5**	<4.4	**24.3**	**11.3**	<4.4	**24.9**	**14.6**	**10.2**
92493095	RW-5_(30-32.5)	RW-05	08/28/2020	**11.3**	**12.7**	<6.95	NA	**1,470**	<638	**704**	<31.9	<31.9	**5,920**	**641**	**631**	<128	<319	<31.9	**2,010**	<31.9	**18,800**	**14,800**	**4,260**	**32,400**	**23,100**	**9,320**
92493096	RW-6_(37.5-40)	RW-06	08/28/2020	**392**	**641**	**259**	NA	**1,130**	<1570	**2,990**	<78.5	<78.5	**14,200**	**1,890**	<78.5	<314	<785	<78.5	**10,100**	<78.5	**29,800**	**53,100**	**14,900**	**83,600**	**58,000**	**25,700**
92493643	BH-02 (27.5-30)	RW-07	09/02/2020	**904**	**770**	**438**	**2,110**	**457**	<310	<15.5	<15.5	**40.4**	**3,490**	<15.5	**488**	**89.6**	<155	<15.5	**1,980**	<15.5	**7,530**	**10,900**	**2,950**	**21,500**	**14,700**	**6,760**
92493643	BH-02 (32.5-35)	RW-07	09/02/2020	**6,960**	**3,750**	**1,650**	**12,400**	**24,400**	<11,800	<592	<592	**1,280**	**147,000**	<592	<592	<2370	<5920	<592	**35,900**	<592	**399,000**	**326,000**	**89,800**	**856,000**	**600,000**	**256,000**
92493136	RW-08_(35-37.5)_20	RW-08	08/30/2020	NA	NA	NA	NA	<4.8	<96.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<19.4	<48.4	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<9.7	<9.7	<4.8
92493136	RW-09_(22.5-25)	RW-09	08/30/2020	<7.38	<7.38	<7.38	NA	**66.5**	<108	<5.4	<5.4	<5.4	**78.4**	<5.4	**12.9**	<21.7	<54.2	<5.4	**20.5**	<5.4	**269**	**219**	**67.6**	**436**	**313**	**123**
92493992	RW-11_(25-27.5)	RW-11	09/02/2020	<6.72	<6.72	<6.72	<6.72	**34**	<134	**23.5**	<16.8	**3.87**	**34.4**	**5.87**	<6.72	<33.6	<33.6	<1.34	<16.8	<6.72	**224**	**27.7**	<6.72	<8.74	**131**	**46.1**
92493992	RW-11_(27.5-30)	RW-11	09/02/2020	**201**	**76.2**	**41.1**	**319**	**912**	<121	**1,070**	**380**	<1.21	**4,260**	**839**	**248**	<30.1	<30.1	**8.16**	**1,770**	**1,640**	**11,500**	**10,800**	**2,700**	**22,400**	**16,000**	**6,340**
92494609	BH-10 (10-12.5)	RW-18	09/04/2020	<8.49	<8.49	<8.49	<8.49	<7.6	<152	<7.6	<7.6	<7.6	**12.4**	<7.6	<7.6	<30.5	<76.2	<7.6	<7.6	<7.6	**58.5**	**18.8**	<7.6	**59.2**	**40.1**	**19.1**
92494609	BH-10 (22.5-25)	RW-18	09/04/2020	**344**	**711**	**311**	**1,060**	**913**	<2860	<143	<143	<143	**18,200**	<143	<143	<573	<1430	<143	**10,300**	<143	**28,400**	**78,000**	**22,300**	**112,000**	**76,200**	**35,500**
92497664	RW-36 (22.5-25)	RW-36	9/27/2020	<6.78	<6.78	**2.39**	**2.39**	<7.3	<146	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<29.1	<72.8	<7.3	<7.3	<7.3	<7.3	<7.3	<7.3	<14.6	<14.6	<7.3
92497664	RW-37 (25-30)	RW-37	9/27/2020	<6.79	<6.79	**2.35**	**2.35**	<6.4	<129	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<25.7	<64.3	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<12.9	<12.9	<6.4
92498670	RW-40@25-27.5	RW-40	10/03/2020	NA	NA	NA	NA	<5.8	**55.1J**	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	**47.2**	<57.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<11.6	<11.6	<5.8
92509149	PMW-11@ (46'-48')	RW-48	11/30/2020	**113**	**284**	**321**	**397**	**32.2**	<130	**465**	<6.5	<6.5	**705**	**157**	<6.5	<26	**167**	<6.5	**1,680**	**662**	**798**	**5,990**	**1,720**	**3,930**	**2,560**	**1,380**

Table 5
Summary of Delineation Soil Sampling Results

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

Lab Report	Sample ID	Well ID	Sample Date	MADEP VPH (mg/kg)				Volatile Organic Compounds (EPA 8260D) (µg/kg)																		
				Aliphatic (C05-C08)	Aliphatic (C09-C12)	Aromatic (C09-C10), Unadjusted	Total VPH	Benzene	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	4-Methyl-2-pentanone (MIBK)	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)	m&p-Xylene	o-Xylene
	Soil-to-Water MSCCs			**68**	**540**	**NE**	**NE**	**5.6**	**16,000**	**4,300**	**3,300**	**370**	**4,900**	**1,700**	**120**	**20**	**400**	**91**	**160**	**1,700**	**4,300**	**8,500**	**8,300**	**4,600**	**NE**	**NE**
	Residential MSCCs			**939**	**1,500**	**31,000**	**NE**	**18,000**	**9,385,000**	**626,000**	**626,000**	**156,000**	**1,560,000**	**1,564,000**	**100,000**	**85,000**	**1,200,000**	**350,000**	**313,000**	**626,000**	**1,200,000**	**782,000**	**782,000**	**3,129,000**	**NE**	**NE**
	Industrial / Commercial MSCCs			**24,528**	**40,000**	**810,000**	**NE**	**164,000**	**245,280,000**	**16,350,000**	**16,350,000**	**4,088,000**	**40,000,000**	**40,880,000**	**4,000,000**	**763,000**	**32,000,000**	**3,100,000**	**8,176,000**	**16,350,000**	**32,000,000**	**20,440,000**	**20,440,000**	**81,760,000**	**NE**	**NE**
QC Data																										
92492881	TB-1	Trip Blank	08/27/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92493060	TB-1	Trip Blank	08/28/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92493075	TB-1	Trip Blank	08/28/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92493224	TB-1	Trip Blank	08/31/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92493403	TB-1	Trip Blank	08/31/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92493643	TB-1	Trip Blank	08/31/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92493861	TB-1	Trip Blank	09/02/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92494208	TB-1	Trip Blank	09/04/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92494924	TB-20200909-1	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92494609	TB-20200909-1	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92494925	TB-20200909-2	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1
92494609	TB-20200909-2	Trip Blank	09/09/2020	NA	NA	NA	NA	<1	<5	NA	NA	<1	<1	NA	<1	<5	<5	<1	<1	NA	<1	NA	NA	<1	<2	<1

Notes:
NA - Not Analyzed
NE - Not Established
All units reported in milligrams per kilogram (mg/kg)
Only detected constituents are shown
MSCC - Maximum Soil ContaminantConcentrations
"<" - Indicates compound was not detected above laboratory reporting limit
VOCs - Volatile Organic Compounds analyzed by EPA Method 8260D
MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality
VPH - Volatile Petroleum Hydrocarbon
Bold values indicate compound was detected above laboratory reporting limit
Shaded values indicate compound exceeded NCAC 2L Standard
Methylene Chloride is likely a laboratory artifact.

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																				MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92493062	MW-1_20200828	MW-01	08/28/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-1_20201021	MW-01	10/21/2020	**50.8**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-1_20210104	MW-01	01/04/2021	**15**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493062	MW-2_20200828	MW-02	08/28/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-2_20201021	MW-02	10/21/2020	**19.2**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-02_20201130	MW-02	11/30/2020	**20.8**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-2_20210104	MW-02	01/04/2021	**12.1**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493062	MW-3_20200828	MW-03	08/28/2020	<10	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-3_20201022	MW-03	10/22/2020	**9.9**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-3_20201130	MW-03	11/30/2020	**13.7**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-3_20210104	MW-03	01/04/2021	**18.5**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-4_20200902	MW-04	09/02/2020	<25	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-4_20201021	MW-04	10/21/2020	**19.4**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-04_20201130	MW-02	11/30/2020	**16.3**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-4_20210104	MW-04	01/04/2021	**14.6**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-5_20201021	MW-05	10/21/2020	**19.6**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-05_20201130	MW-02	11/30/2020	**13.3**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-05_20210104	MW-05	01/04/2021	**46**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	<100
92493708	MW-6_20200902	MW-02	09/02/2020	<25	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-6_20201021	MW-06	10/21/2020	**33.8**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-6_20210104	MW-02	01/04/2021	**19.1**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-7_20200902	MW-07	09/02/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-7_20201023	MW-07	10/23/2020	**73.1**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-7_20210104	MW-07	01/04/2021	**78**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515762	MW-7D (120-127)'	MW-07D	1/10/2021	**18.8**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**66.9**	<0.50	<0.50	<1.0	<0.50	**132**	<100	<100	**132**
92515762	DUP-6	MW-07D	1/10/2021	**7**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**60.2**	<0.50	<0.50	<1.0	<0.50	**127**	<100	<100	**127**
92515762	MW-7D (84-91)'	MW-07D	1/11/2021	**15.5**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**146**	<0.50	<0.50	<1.0	<0.50	**285**	<100	<100	**285**

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																				MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92494322	MW-8_20200903	MW-08	09/03/2020	<5	<0.5	**2.5**	<0.5	<1	**15.5**	<1	**3.8**	<0.5	<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**	<0.5	<1	**12.8**	<1	<0.5	<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	<0.5	<1	**3.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508886	MW-8_20201201	MW-08	12/02/2020	**9.7**	<0.5	<0.5	<0.5	<1	**0.96**	<1	<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
92515216	MW-08_20210106	MW-08	01/06/2021	**10**	<0.5	<0.5	<0.5	<1	**0.93**	<1	<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-9_20200902	MW-09	09/02/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495241	MW-09_20200913	MW-09	09/13/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-9_20201021	MW-02	10/21/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-09_20201130	MW-09	11/30/2020	**7.2**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-9_20210104	MW-09	01/04/2021	**5.1**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493864	MW-11_20200903	MW-11	09/03/2020	<5	<0.5	**2.1**	<0.5	<1	**18.3**	<1	**3.7**	<0.5	<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	<0.5	<1	**6.3**	<1	<0.5	<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	<40	<20	<40	<20	**172**	**286**	<20	**99.8**	**29.5**	<80	<20	<20	**4370**	**265**	<20	**1110**	**645**	**16700**	**4580**	**1370**	**5950**
92493708	MW-12_20200902	MW-02	09/02/2020	<25	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-12_20201021	MW-02	10/21/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-12_20201130	MW-12	11/30/2020	**8.7**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-12_20210104	MW-12	01/04/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495627	MW-13_20200915	MW-13	09/15/2020	<5	<0.5	**2.2**	<0.5	<1	**21.7**	<1	**0.54**	<0.5	<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**	<0.5	<1	**15.1**	<1	<0.5	<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	<0.5	<1	**5.1**	<1	<0.5	<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	<0.5	<1	**6.2**	<1	<0.5	<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
92515216	MW-13_20210106	MW-02	01/06/2021	<5	<0.5	<0.5	<0.5	<1	**4.6**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	**0.85**	<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**	<0.5	<1	**4.4**	<1	<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
92501345	MW-14_20201020	MW-14	10/20/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**0.55**	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514892	MW-14_20210105	MW-14	01/05/2021	**94.7**	<0.5	<0.5	<0.5	<1	**0.56**	<1	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-15_20201021	MW-15	10/21/2020	**10.4**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-15_20210104	MW-02	01/04/2021	**13.5**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	DUP-1-20210104	MW-15	01/04/2021	**14.5**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92495905	MW-16_20200916	MW-16	09/16/2020	<5	<0.5	**0.78**	<0.5	<1	**5.9**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500605	MW-16_20201007	MW-16	10/07/2020	<5	<0.5	<0.5	<0.5	<1	**3.3**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-16_20201020	MW-16	10/20/2020	**7.8**	<0.5	<0.5	<0.5	<1	**2**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508884	MW-16_20201201	MW-16	12/01/2020	**18.9**	<0.5	<0.5	<0.5	<1	**1.1**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515075	MW-16_20210106	MW-16	01/06/2021	**42.7**	<0.5	<0.5	<0.5	<1	**1.3**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495905	MW-17_20200916	MW-17	09/16/2020	<5	**0.6**	**1.4**	<0.5	<1	**16.2**	<1	<0.5	<0.5	**1.4**	<0.5	<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	<0.5	<1	**8.9**	<1	<0.5	<0.5	**0.82**	<0.5	<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	<0.5	<1	**4.7**	<1	<0.5	<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
92515075	MW-17_20210106	MW-17	01/06/2021	**9.5**	<0.5	<0.5	<0.5	<1	**4**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-18_20200909	MW-18	09/09/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-18_20201023	MW-18	10/23/2020	**7.8**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	**5**	<0.5	<0.5	<2	**1.4**	<2	<0.5	<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	<1	<0.5	<1	<0.5	**2.1**	<0.5	<0.5	<2	**0.54**	<2	<0.5	<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	<1	<0.5	<1	<0.5	**17.1**	**9.0**	<0.5	<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**	<0.5	<1	**30.8**	<1	**0.79**	<0.5	<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	<0.5	<1	**24.5**	<1	<0.5	<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	<0.5	<1	**8.9**	<1	<0.5	**1.3**	<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
92509252	MW-19_20201202	MW-19	12/02/2020	**13.7**	<0.5	**0.70**	<0.5	<1	**10.2**	<1	<0.5	**1.2**	<0.5	<0.5	<2	<0.5	<2	<0.5	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515075	MW-19_20210106	MW-19	01/06/2021	**115**	**171**	<0.5	<0.5	<1	**6.4**	<1	<0.5	**34.2**	**1.2**	<0.5	<2	**10.5**	<2	<0.5	**0.93**	**34**	**3.4**	<0.5	**21.7**	**26.2**	**406**	<100	<100	**509**
92494640	MW-20_20200909	MW-20	09/09/2020	<5	<0.5	<0.5	<0.5	<1	**0.77**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-20_20201023	MW-20	10/23/2020	**12.5**	<0.5	<0.5	<0.5	<1	**0.57**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-20_20201201	MW-20	12/01/2020	**26.1**	<0.5	<0.5	<0.5	<1	**1.3**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-20_20210104	MW-20	01/04/2021	**24.4**	<0.5	<0.5	<0.5	<1	**0.82**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**1.1**	**2.2**	<0.5	**1.5**	**0.86**	<100	<100	<100	<100
92495905	MW-21_20200916	MW-21	09/16/2020	<5	<0.5	<0.5	<0.5	<1	**8**	<1	<0.5	**1.2**	<0.5	<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	<0.5	<1	**5.8**	<1	<0.5	**12.2**	**2.2**	<0.5	<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	<0.5	<1	**4.5**	<1	<0.5	**31.1**	**3.6**	<0.5	<2	**12.2**	<2	<0.5	**0.82**	**46.8**	**7.7**	<0.5	**42.7**	**24.2**	**466**	**121**	<100	**630**
92515075	MW-21_20210106	MW-21	01/06/2021	<5	**726**	<2.5	<2.5	<5	<2.5	<5	<2.5	**108**	**8**	<2.5	<10	**50**	<10	<2.5	<2.5	**96.1**	**28.9**	<2.5	**128**	**68.5**	**2210**	**456**	**122**	**2790**
92494640	MW-22_20200909	MW-22	09/09/2020	<5	**14.5**	<0.5	<0.5	<1	<0.5	<1	<0.5	**4.4**	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	<100	<100	<100	<100
92500608	MW-22_20201007	MW-22	10/07/2020	**9.4**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	**1.8**	<0.5	<0.5	<2	<0.5	<2	<0.5	<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	<1	<0.5	<1	<0.5	**1.6**	<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
92496816	MW-23_20200920	MW-23	09/20/2020	<5	<0.5	**6.1**	<0.5	<1	**36.9**	<1	**1.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<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**	<0.5	<1	**3.2**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-23R_20201020	MW-23	10/20/2020	**94.4**	<0.5	<0.5	<0.5	<1	**1.7**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508884	MW-23_20201201	MW-23	12/01/2020	**24.7**	<0.5	<0.5	<0.5	<1	**0.97**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515075	MW-23_20210106	MW-23	01/06/2021	**85.1**	<0.5	<0.5	<0.5	<1	**0.61**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																				MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92495103	MW-25_20200911	MW-25	09/11/2020	<10	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-25_20201023	MW-25	10/23/2020	**97.9**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-25_20201201	MW-25	12/01/2020	**142**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-25_20210104	MW-25	01/04/2021	**160**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515869	MW-25D (83-90)	MW-25D	1/11/2021	**8.1**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	**0.88**	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**131**	<0.50	<0.50	<1.0	<0.50	**118**	<100	<100	**118**
92515869	MW-25D (108-115)	MW-25D	1/11/2021	**7.9**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	**0.91**	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**34.1**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515869	MW-25D (115-122)	MW-25D	1/11/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	**0.97**	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**3.8**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515869	DUP-7	MW-25D	1/11/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	**0.98**	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**4**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515755	MW-25D (125-139)	MW-25D	1/9/2021	**5.1**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	**1.2**	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515755	DUP-1-20210109	MW-25D	1/9/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	**1.2**	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92494640	MW-26_20200909	MW-26	09/09/2020	<5	**7.7**	<0.5	<0.5	<1	<0.5	<1	<0.5	**1.3**	**1.8**	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-27_20201022	MW-27	10/22/2020	**18.4**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-27_20210104	MW-27	01/04/2021	**35.1**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494923	MW-28_20200909	MW-28	09/09/2020	<25	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501355	MW-28_20201020	MW-28	10/20/2020	**27.6**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515075	MW-28_20210106	MW-28	01/06/2021	**45**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495241	MW-29_20200913	MW-29	09/13/2020	<5	<0.5	<0.5	<0.5	<1	**2.8**	<1	<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-29_20201022	MW-29	10/22/2020	<5	<0.5	<0.5	<0.5	<1	**0.77**	<1	<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-29_20201203	MW-29	12/03/2020	**23.7**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514898	MW-29_20210105	MW-29	01/05/2021	**5.1**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514898	Dup-1-20210105	MW-29	01/05/2021	**5.6**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-30_20201021	MW-30	10/21/2020	<5	<0.5	<0.5	<0.5	<1	**0.58**	<1	<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-30_20201130	MW-30	11/30/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-30_20210104	MW-30	01/04/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495239	MW-31_20200913	MW-31	09/13/2020	<5	**0.56**	<0.5	<0.5	<1	**1.7**	<1	<0.5	<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	<0.5	<1	**3**	<1	<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
92501343	MW-31_20201020	MW-31	10/20/2020	<5	<0.5	<0.5	<0.5	<1	**1.4**	<1	<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
92509252	MW-31_20201202	MW-31	12/02/2020	**12.2**	<0.5	<0.5	<0.5	<1	**3.1**	<1	<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
92515075	MW-31_20210106	MW-31	01/06/2021	**16.6**	<0.5	<0.5	<0.5	<1	**2.1**	<1	<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 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92494864	MW-32_20200910	MW-32	09/10/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-32_20201022	MW-32	10/22/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-32_20201130	MW-32	11/30/2020	**10.2**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-32_20210104	MW-32	01/04/2021	**16.5**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-33_20200909	MW-33	09/09/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-33_20201022	MW-33	10/22/2020	**16.6**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-33_20210104	MW-33	01/04/2021	**14.3**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-34_20200909	MW-34	09/09/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-34_20201022	MW-34	10/22/2020	**5.7**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-34_20210104	MW-34	01/04/2021	**10.9**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494864	MW-35_20200910	MW-35	09/10/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-35_20201021	MW-35	10/21/2020	**9.1**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-35_20201130	MW-35	11/30/2020	**12.2**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-35_20210104	MW-35	01/04/2021	**13.8**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494864	MW-36_20200910	MW-36	09/10/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-36_20201021	MW-36	10/21/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-36_20201130	MW-36	11/30/2020	**18.4**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-36_20210104	MW-36	01/04/2021	**6.9**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514955	MW-36D (96.5-103.5)	MW-36D	01/05/2021	**40.5**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**169**	<0.50	<0.50	<1.0	<0.50	**280**	<100	<100	**318**
92514955	DUP-2	MW-36D	01/05/2021	**47.3**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**164**	<0.50	<0.50	<1.0	<0.50	**281**	<100	<100	**318**
92494864	MW-37_20200910	MW-37	09/10/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-37_20201021	MW-37	10/21/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	MW-37_20201130	MW-37	11/30/2020	**9.0**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	MW-37_20210104	MW-37	01/04/2021	**9.7**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<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**	<0.5	<1	**4.3**	<1	<0.5	**2**	<0.5	<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	<1	<0.5	<1	<0.5	**28.4**	**3.4**	<0.5	<2	**12.2**	<2	<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	<1	<0.5	<1	<0.5	**50.4**	**14.1**	<0.5	<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	<1	<0.5	<1	<0.5	**51.8**	**14.6**	<0.5	<2	**19.3**	<2	<0.5	<0.5	**162**	**4.2**	<0.5	**50.1**	**33.9**	**761**	**162**	<100	**969**
92515544	MW-38_20210107	MW-38	01/07/2021	**13.2**	**78.1**	<0.5	<0.5	<1	<0.5	<1	<0.5	**37.7**	**8.5**	<0.5	<2	**13.8**	<2	<0.5	<0.5	**79.5**	**3.7**	<0.5	**34**	**20.6**	**389**	**107**	<100	**532**
92495906	MW-39_20200916	MW-39	09/16/2020	<5	**966**	<5	<5	<10	**13.9**	<10	<5	**83.3**	**124**	<5	<20	**10.8**	<20	<5	<5	**1,980**	**61.1**	<5	**407**	**209**	**4,280**	**732**	**177**	**5190**

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92495100	MW-40_20200911	MW-40	09/11/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	**3.2**	<0.5	<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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508884	MW-40_20201201	MW-40	12/01/2020	**47.9**	**416**	<2.5	<2.5	<5	<2.5	<5	<2.5	**27.7**	**37.7**	<2.5	<10	**3.2**	<10	<2.5	<2.5	**829**	**71.1**	<2.5	**404**	**213**	**2770**	**1070**	**323**	**4070**
92515075	MW-40_20210106	MW-40	01/06/2021	**32.4**	**1870**	<12.5	<12.5	<25	<12.5	<25	<12.5	**146**	**252**	<12.5	<50	**20**	**78.4**	<12.5	<12.5	**4460**	**355**	<12.5	**1280**	**662**	**12100**	**6890**	**1430**	**20400**
92495103	MW-41_20200911	MW-41	09/11/2020	<10	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	**0.72**	<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-41_20201023	MW-41	10/23/2020	**18.2**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	**2.3**	<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
92509560	MW-41_20201203	MW-41	12/03/2020	**13.6**	**5.3**	<0.5	<0.5	<1	<0.5	<1	<0.5	**1.6**	**0.68**	<0.5	<2	<0.5	<2	<0.5	<0.5	**8.5**	<0.5	<0.5	**3.0**	**1.7**	<100	<100	<100	<100
92514898	MW-41_20210105	MW-41	01/05/2021	**70.9**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495626	MW-42_20200915	MW-42	09/15/2020	<5	**1.3**	**1.9**	<0.5	<1	**23.8**	<1	<0.5	<0.5	**2.4**	<0.5	<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**	<0.5	<1	**23.9**	<1	<0.5	<0.5	**0.75**	<0.5	<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	<0.5	<1	**15.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509255	MW-42_20201202	MW-42	12/02/2020	<5	<0.5	<0.5	<0.5	<1	**10.6**	<1	<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
92515387	MW- 42_20210107	MW-42	01/07/2021	<5	<0.5	<0.5	<0.5	<1	**6.8**	<1	<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-43_20200916	MW-43	09/16/2020	<5	<0.5	**1.8**	<0.5	<1	**12.1**	<1	<0.5	<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**	<0.5	<1	**5.8**	<1	<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
92509250	MW-43_20201202	MW-43	12/02/2020	<5	<0.5	<0.5	<0.5	<1	**2.1**	<1	<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
92514898	MW-43_20210105	MW-43	01/05/2021	<5	<0.5	<0.5	<0.5	<1	**1.2**	<1	<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
92495627	MW-44_20200915	MW-44	09/15/2020	**34.6**	**11.2**	<0.5	<0.5	<1	**18.5**	<1	<0.5	<0.5	**8.4**	<0.5	<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	<0.5	<1	**1.2**	<1	<0.5	<0.5	**0.53**	<0.5	<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	<1	<0.5	<1	<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
92514892	MW-44_20210105	MW-44	01/05/2021	**54.4**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495624	MW-45_20200915	MW-45	09/15/2020	<5	**2.8**	**1.4**	<0.5	<1	**20**	<1	<0.5	<0.5	**3.1**	<0.5	<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**	<0.5	<1	**15.8**	<1	<0.5	<0.5	**0.88**	<0.5	<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**	<0.5	<1	**11.7**	<1	<0.5	<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	<0.5	<1	**5.9**	<1	<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
92514892	MW-45_20210105	MW-45	01/05/2021	**12.8**	<0.5	<0.5	<0.5	<1	**4.6**	<1	<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
92495627	MW-46_20200915	MW-46	09/15/2020	<5	**1.6**	**2.5**	<0.5	<1	**26.2**	<1	**0.58**	<0.5	**3.1**	<0.5	<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	<0.5	<1	**17.6**	<1	<0.5	<0.5	**0.52**	<0.5	<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	<0.5	<1	**10.9**	<1	<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
92515216	MW-46_20210106	MW-46	01/06/2021	**13.3**	<0.5	<0.5	<0.5	<1	**5.2**	<1	<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
92495627	MW-47_20200915	MW-47	09/15/2020	**6.3**	<0.5	**2**	<0.5	<1	**16.5**	<1	<0.5	<0.5	**1.4**	<0.5	<2	<0.5	<2	<0.5	<0.5	**6.3**	**1.5**	<0.5	**5.2**	**2.4**	<100	<100	<100	<100
92496397	MW-48_20200918	MW-48	09/18/2020	**9.6**	**1.2**	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-48_20201022	MW-48	10/22/2020	**19.8**	**40.4**	<0.5	<0.5	<1	<0.5	<1	<0.5	**19**	**4.1**	<0.5	<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	<1	<0.5	<1	<0.5	**17.2**	**3.6**	<0.5	<2	**5.8**	<2	<0.5	<0.5	**58.7**	**1.5**	<0.5	**10.7**	**6.9**	**1030**	<100	<100	**1060**

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92496817	MW-49_20200922	MW-49	09/22/2020	**5.5**	<0.5	**1**	<0.5	<1	**11.7**	<1	<0.5	<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	<0.5	<1	**2.2**	<1	<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
92501345	MW-49_20201020	MW-49	10/20/2020	**34.4**	<0.5	<0.5	<0.5	<1	**1.6**	<1	<0.5	**0.65**	<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-49_20201202	MW-49	12/02/2020	**16.2**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	**3.4**	<0.5	<0.5	<2	**1.4**	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515548	MW-49_20210107	MW-49	01/07/2021	**31**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	**7**	<0.5	<0.5	<2	**2.9**	<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	<2	<4	**5.9**	<4	<2	**37.2**	**20.2**	<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	<12.5	<6.2	<12.5	<6.2	**208**	**144**	<6.2	**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	<20	<10	<20	<10	**482**	**406**	**10.3**	<40	**287**	**68.3**	<10	<10	**3760**	**270**	<10	**1950**	**962**	**18700**	**5620**	**934**	**6550**
92515216	MW-50_20210106	MW-50	01/06/2021	**18.2**	**4670**	<25	<25	<50	<25	<50	<25	**587**	**552**	<25	<100	**392**	**111**	<25	<25	**6590**	**450**	<25	**2460**	**1230**	**25900**	**8140**	**1210**	**35300**
92496817	MW-51_20200922	MW-51	09/22/2020	<5	**1.4**	**3.8**	<0.5	<1	**26.1**	<1	**1.3**	<0.5	**0.84**	<0.5	<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**	<0.5	<1	**19.3**	<1	<0.5	<0.5	**0.71**	<0.5	<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**	<0.5	<1	**19.2**	<1	<0.5	<0.5	**0.72**	<0.5	<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**	<0.5	<1	**13.4**	<1	<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
92501615	DUP-1-20201021	MW-51	10/21/2020	<5	**0.5**	**0.92**	<0.5	<1	**13**	<1	<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	MW-51_20201202	MW-51	12/02/2020	<5	<0.5	**0.55**	<0.5	<1	**6.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514892	MW-51_20210105	MW-51	01/05/2021	**141**	<0.5	<0.5	<0.5	<1	**5.3**	<1	<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
92497774	MW-52_20200928	MW-52	09/28/2020	**20.3**	**8.9**	**0.76**	<0.5	<1	**6.3**	<1	<0.5	**5.7**	**1**	<0.5	<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	<0.5	<1	**1.8**	<1	<0.5	**26.7**	**3.5**	<0.5	<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	<0.5	<1	**0.53**	<1	<0.5	**33.3**	**4.6**	<0.5	<2	**8.8**	<2	<0.5	<0.5	**69.6**	**1.2**	<0.5	**12.7**	**9.9**	**296**	<100	<100	**365**
92514898	MW-52_20210105	MW-52	01/05/2021	**14.1**	**142**	<1	<1	<2	<1	<2	<1	**50.3**	**12.8**	<1	<4	**13.2**	<4	<1	<1	**233**	**7.1**	<1	**50.2**	**29.6**	**899**	**204**	<100	**1150**
92499057	MW-53_20201006	MW-53	10/06/2020	**37.6**	<0.5	**2**	<0.5	<1	**22.9**	<1	<0.5	<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	<0.5	<1	**6.4**	<1	<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-53_20201203	MW-53	12/03/2020	**23.6**	<0.5	<0.5	<0.5	<1	**2.9**	<1	<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	Dup-1-20201203	MW-53	12/03/2020	**32.9**	<0.5	<0.5	<0.5	<1	**2.8**	<1	<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
92515544	MW-53_20210107	MW-53	01/07/2021	**123**	<0.5	<0.5	<0.5	<1	**0.97**	<1	<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-54_20201006	MW-54	10/06/2020	**8.2**	<0.5	**3**	<0.5	<1	**28.2**	<1	**0.75**	<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-54_20201022	MW-54	10/22/2020	<5	<0.5	**0.65**	<0.5	<1	**9.4**	<1	<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-54_20201203	MW-54	12/03/2020	**18.6**	<0.5	<0.5	<0.5	<1	**2.4**	<1	<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	Dup-2-20201203	MW-54	12/03/2020	**14.7**	<0.5	<0.5	<0.5	<1	**2.9**	<1	<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
92515544	MW-54_20210107	MW-54	01/07/2021	**29.1**	<0.5	<0.5	<0.5	<1	**1.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499057	MW-55_20201006	MW-55	10/06/2020	<5	**99.7**	**0.92**	<0.5	<1	**6.9**	<1	<0.5	**48**	**6**	<0.5	<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**	<0.5	<1	**6.8**	<1	<0.5	**48.9**	**6.1**	<0.5	<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	<25	<12.5	<25	<12.5	**144**	**457**	**26.5**	<50	<12.5	**85.7**	<12.5	<12.5	**3590**	**626**	<12.5	**1870**	**860**	**13000**	**4580**	**1720**	**6300**

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92499057	MW-56_20201006	MW-56	10/06/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**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	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	MW-56_20201203	MW-56	12/03/2020	**8.4**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515544	MW-56_20210107	MW-56	01/07/2021	**8**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<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	<0.5	<1	**2.4**	<1	<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-57_20201022	MW-57	10/22/2020	<5	<0.5	<0.5	<0.5	<1	**3**	<1	<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-57_20201203	MW-57	12/03/2020	**31.8**	<0.5	<0.5	<0.5	<1	**0.65**	<1	<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
92515544	MW-57_20210107	MW-57	01/07/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92516451	MW-57D (91-101)	MW-57D	1/12/2021	**124**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**8**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92500608	MW-58_20201007	MW-58	10/07/2020	<5	<0.5	**2.8**	<0.5	<1	**15.6**	<1	**0.61**	<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-58_20201022	MW-58	10/22/2020	<5	<0.5	**1.8**	<0.5	<1	**9.5**	<1	**0.5**	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-58_20201201	MW-58	12/01/2020	**22.7**	<0.5	**0.76**	<0.5	<1	**3.8**	<1	<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
92514898	MW-58_20210105	MW-58	01/05/2021	<5	<0.5	<0.5	<0.5	<1	**2.2**	<1	<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
92500608	MW-59_20201007	MW-59	10/07/2020	<5	<0.5	<0.5	<0.5	<1	**2.8**	<1	<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-59_20201021	MW-59	10/21/2020	<5	<0.5	<0.5	<0.5	<1	**2.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	MW-59_20201201	MW-59	12/01/2020	**31.6**	<0.5	<0.5	<0.5	<1	**1.8**	<1	<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
92514898	MW-59_20210105	MW-59	01/05/2021	**37.3**	<0.5	<0.5	<0.5	<1	**1.1**	<1	<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
92515213	MW-59D (150-160)	MW-59D	01/06/2021	**6.9**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**34.3**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515213	DUP-3	MW-59D	01/06/2021	**9.9**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**35**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92500607	MW-60_20201007	MW-60	10/07/2020	**18**	<0.5	**4.1**	<0.5	<1	**15.2**	<1	**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
92501345	MW-60_20201020	MW-60	10/20/2020	**20.4**	<0.5	**0.88**	<0.5	<1	**3.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508886	MW-60_20201201	MW-60	12/02/2020	**16.4**	<0.5	<0.5	<0.5	<1	**1.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514892	MW-60_20210105	MW-60	01/05/2021	**52.8**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<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**	<0.5	<1	**31.0**	<1	**1.3**	<0.5	**0.54**	<0.5	<2	<0.5	<2	<0.5	<0.5	**7.9**	<0.5	<0.5	**1.4**	**0.87**	<100	<100	<100	<100
92514602	MW-61D(96.5-103.5)	MW-61D	01/04/2021	**8.3**	<0.50	**2.8**	<0.50	<1.0	**11.3**	<1.0	**0.65**	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**2**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92514602	DUP-1	MW-61D	01/04/2021	**12**	<0.50	**3**	<0.50	**1.1**	**11.4**	<1.0	**0.55**	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	**1.5**	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92509555	MW-62_20201203	MW-62	12/03/2020	<25	**0.67**	**4.8**	<0.5	<1	**22.2**	<1	**1.2**	<0.5	<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
92514892	MW-62_20210105	MW-62	01/05/2021	**74.5**	<0.5	**3.7**	<0.5	<1	**16.8**	<1	**0.95**	<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
92515858	MW-62D (125-143)	MW-62D	01/07/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92509560	MW-63_20201203	MW-63	12/03/2020	**6.3**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515544	MW-63_20210107	MW-63	01/07/2021	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515354	MW-64_20210107	MW-64	01/07/2021	**101**	<0.5	<0.5	<0.5	<1	**1.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515354	Dup-1-20210107	MW-64	01/07/2021	**94.8**	<0.5	<0.5	<0.5	<1	**1.7**	<1	<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 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																				MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92515354	MW-65_20210107	MW-65D	01/07/2021	**264**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515642	MW-65D (115-150)	MW-65D	01/07/2021	**12.2**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515543	DUP-1-20210107	MW-65D	01/07/2021	**20.8**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515387	MW- 66_20210107	MW-66	01/07/2021	**107**	<0.5	**2.8**	<0.5	<1	**12**	<1	**0.63**	<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
92515387	MW- 67_20210107	MW-67	01/07/2021	**23.2**	<0.5	<0.5	<0.5	<1	**1.5**	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	**106**	<0.5	<0.5	<1	<0.5	**116**	<100	<100	**116**
92515387	MW- 68_20210107	MW-68	01/07/2021	**99.2**	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515214	MW-69_20210106	MW-69	01/06/2021	**123**	<0.5	**0.55**	<0.5	<1	**4.6**	<1	<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
92515354	MW-70_20210107	MW-70	01/07/2021	**155**	<0.5	<0.5	<0.5	<1	**1.4**	<1	<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
92516451	Walker (101-108)	MW-14015_AC_RD	1/13/2021	**81.4**	<2.0	**7.5**	<2.0	<4.0	**403**	**4.9**	<2.0	<2.0	<2.0	<2.0	<8.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<2.0	**220**	<100	<100	**350**
92516451	Walker (48-55)	MW-14015_AC_RD	1/13/2021	**5.8**	<0.50	**3.8**	**5.4**	<1.0	**81.3**	**1.1**	**0.62**	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	**131**
92516451	Dup-9	MW-14015_AC_RD	1/13/2021	**6.2**	<0.50	**3.9**	**6.6**	<1.0	**78.7**	<1.0	**0.62**	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	**115**

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																				MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
		NCAC 2L Standards		15	1	0.6	70	3000	70	3	0.4	70	600	70	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE
QC Data																												
92493062	TB-2	N/A	08/28/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92493708	Trip Blank	N/A	09/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92493864	Trip Blank	N/A	09/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494322	Trip Blank	N/A	09/03/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496397	Trip Blank	N/A	09/18/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494640	Trip Blank-03	N/A	09/09/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494923	Trip Blank-03	N/A	09/09/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494864	Trip Blank-04	N/A	09/10/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495100	Trip Blank-05	N/A	09/11/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495103	Trip Blank-05	N/A	09/11/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495239	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495241	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495244	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495624	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495626	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495627	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495907	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495905	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495906	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496816	TB-20200922	N/A	09/20/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496817	TB-20200922	N/A	09/22/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92497017	TB-20200923	N/A	09/22/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92497774	TB-20200928	N/A	09/28/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92499587	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92500605	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92500606	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501343	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501344	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501345	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501355	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501615	Trip Blank	N/A	10/21/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
		NCAC 2L Standards		15	1	0.6	70	3000	70	3	0.4	70	600	70	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE
92501616	TRIP BLANK	N/A	10/21/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	NA
92501960	TRIP BLANK	N/A	10/23/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508536	Trip Blank	N/A	11/30/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508536	Trip Blank 2	N/A	11/30/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508884	Trip Blank	N/A	12/01/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509250	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509252	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509253	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509255	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509251	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508881	Trip Blank	N/A	12/01/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509555	Trip Blank	N/A	12/03/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92509560	Trip Blank	N/A	12/03/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92508886	Trip Blank	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92514892	Trip Blank	N/A	01/05/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92515214	Trip Blank	N/A	01/06/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92515216	Trip Blank	N/A	01/06/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92514602	Trip Blank	N/A	01/04/2021	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA
92514955	Trip Blank	N/A	01/05/2021	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA
92515213	TB	N/A	01/06/2021	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA
92515075	Trip Blank	N/A	01/06/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92515543	TRIP BLANK	N/A	01/07/2021	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA
92515354	Trip Blank	N/A	01/07/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92515387	Trip Blank	N/A	01/07/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92515544	Trip Blank	N/A	01/07/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92515548	Trip Blank	N/A	01/07/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92515755	Trip Blank	N/A	1/9/2021	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA
92515762	Trip Blank	N/A	1/10/2021	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA
92516451	Trip Blank		1/12/2021	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA
92499587	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499587	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500605	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																			MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92500605	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500606	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500606	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	FB-01-20201021	N/A	10/21/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	FB-2-20201022	N/A	10/22/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	FB-3-20201023	N/A	10/23/2020	<5	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508536	FB-01-20201130	N/A	11/30/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509251	FB-1-20201202	N/A	12/02/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92509560	FB-1-20201203	N/A	12/03/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92508881	FB-1-20201201	N/A	12/01/2020	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514598	FB-1-20210104	N/A	01/04/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514898	FB-1-20210105	N/A	01/05/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92514602	EB-1	N/A	01/04/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92514602	FB-1	N/A	01/04/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92514955	EB-1	N/A	01/05/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92514955	FB-1	N/A	01/05/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515213	EB-3	N/A	01/06/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515213	FB-3	N/A	01/06/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515075	FB-1-20210106	N/A	01/06/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515543	EB-1-20210107	N/A	01/07/2021	**21.3**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515543	FB-1-20210107	N/A	01/07/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515544	FB-1-20210107	N/A	01/07/2021	NA	<0.5	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92515755	EB-1-20210109	N/A	1/9/2021	**9.2**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515755	FB-1-20210109	N/A	1/9/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515762	EB-6	N/A	1/10/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515762	FB-6	N/A	1/10/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515869	EB-7	N/A	1/11/2021	**6.9**	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92515869	FB-7	N/A	1/11/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100

Table 6
Summary of Monitoring Well Sampling Results

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

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)																					MADEP VPH (µg/L)			
				Lead	Benzene	Bromodichloromethane	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				**15**	**1**	**0.6**	**70**	**3000**	**70**	**3**	**0.4**	**70**	**600**	**70**	**5**	**20**	**6**	**70**	**0.7**	**600**	**400**	**400**	**500**	**500**	**400**	**NE**	**NE**	**NE**
92516451	EB-8	N/A	1/12/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92516451	FB-8	N/A	1/12/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92516451	EB-9	N/A	1/13/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100
92516451	FB-9	N/A	1/13/2021	<5.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<100	<100	<100	<100

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

Table 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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
92510221	13800_HC_RD_20201208	12/8/2020	<5.0	<0.50	<0.50
92512037	13800_HC_.RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513363	13800_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513987	13800_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514747	13800_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
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 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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
92510233	13835_AC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92512027	13835_AC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92512046	DUP-1	12/15/2020	<5.0	<0.50	<0.50
92513354	13835_AC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513978	13835_AC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514756	13835_AC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
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 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
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			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
92510243	13926A_HC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92512042	13926A_HC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513351	13926A_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513975	13926A_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514754	13926A_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50

Table 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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**
92510237	13926B_HC_RD_20201208	12/08/2020	<5.0	<0.50	**9.2**
92512044	13926B_HC_RD_20201215	12/15/2020	<5.0	<0.50	**8.5**
92513370	13926B_HC_RD_20201222	12/22/2020	<5.0	<0.50	**6.4**
92513986	13926B_HC_RD_20201229	12/29/2020	<5.0	<0.50	**7.5**
92514757	13926B_HC_RD_20210105	01/05/2021	<5.0	<0.50	**11.5**
92514760	DUP-1	01/05/2021	<5.0	<0.50	**11.7**
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 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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	<5.0	<0.50	<0.50
92508713	13945_AC_Rd_20201201	12/01/2020	<5.0	<0.50	<0.50
92508822	DUP-1	12/01/2020	<0.50	<0.50	<0.50
92510208	13945_AC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50

Table 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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
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
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

Table 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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
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
92508021	DUP-1	11/24/2020	<5.0	<0.50	<0.50
92508835	14226_HC_RD_20201201	12/01/2020	<5.0	<0.50	<0.50
92510240	14226_HC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92510245	DUP-1	12/08/2020	<5.0	<0.50	<0.50
92511927	14226_HC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513359	14226_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513988	14226_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92513991	DUP-1	12/29/2020	<5.0	<0.50	<0.50
92514751	14226_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50

Table 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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	<5.0	<0.50	<0.50
92504290	14401_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92506047	14401_HC_RD	11/12/2020	<5.0	<0.50	<0.50
92507394	14401_HC_RD	11/19/2020	<5.0	<0.50	<0.50
92508004	14401_HC_RD_20201124	11/24/2020	<5.0	<0.50	<0.50
92508717	14401_HC_RD_20201201	12/01/2020	**5.8**	<0.50	<0.50
92510211	14401_HC_RD_20201208	12/08/2020	<5.0	<0.50	<0.50
92512045	14401_HC_RD_20201215	12/15/2020	<5.0	<0.50	<0.50
92513372	14401_HC_RD_20201222	12/22/2020	<5.0	<0.50	<0.50
92513342	Dup-1	12/22/2020	<5.0	<0.50	<0.50
92513981	14401_HC_RD_20201229	12/29/2020	<5.0	<0.50	<0.50
92514759	14401_HC_RD_20210105	01/05/2021	<5.0	<0.50	<0.50
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 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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
92508021	FB-1	11/24/2020	<5.0	<0.50	<0.50
92508822	FB-1	12/01/2020	<0.50	<0.50	<0.50
92510245	FB-1	12/08/2020	<5.0	<0.50	<0.50
92512046	FB-1	12/15/2020	<5.0	<0.50	<0.50
92513342	FB-1	12/22/2020	<5.0	<0.50	<0.50
92513991	FB-1	12/29/2020	<5.0	<0.50	<0.50
92514760	FB-1	01/05/2021	<5.0	<0.50	<0.50
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

Table 7
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-SR2448
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
92493905	Trip_Blank	09/02/2020	NA	<0.50	<0.50
92494126	Trip_Blank	09/03/2020	NA	<0.50	<0.50
92495069	TRIP_BLANK	09/10/2020	NA	<0.50	<0.50
92495193	TRIP_BLANK	09/11/2020	NA	<0.50	<0.50
92495930	Trip_Blank	09/16/2020	NA	<0.50	<0.50
92497418	Trip_Blank	09/24/2020	NA	<0.50	<0.50
92499673	TRIP BLANK	10/08/2020	NA	<0.50	<0.50
92500731	TRIP BLANK	10/15/2020	NA	<0.50	<0.50
92501817	TRIP BLANK	10/22/2020	NA	<0.50	<0.50
92502957	TRIP BLANK	10/29/2020	NA	<0.50	<0.50
92504300	TRIP BLANK	11/05/2020	NA	<0.50	<0.50
92506038	Trip Blank	11/12/2020	NA	<0.50	<0.50
92507391	Trip Blank	11/19/2020	NA	<0.50	<0.50
92508021	Trip Blank	11/24/2020	<5.0	<0.50	<0.50
92508822	Trip Blank	12/01/2020	NA	<0.50	<0.50
92510245	Trip Blank	12/08/2020	NA	<0.50	<0.50
92512046	Trip Blank	12/15/2020	NA	<0.50	<0.50
92513342	Trip Blank	12/22/2020	NA	<0.50	<0.50
92513991	Trip Blank	12/29/2020	NA	<0.50	<0.50
92514760	TRIP BLANK	01/05/2021	NA	<0.50	<0.50

Notes:
NA - Not Analyzed
All units reported in micrograms per liter (µg/L)
Only detected consituents are shown
MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality
Lead - Analyzed by Method 6010D
VOCs - Volatile Organic Compounds, analyzed by Method SM 6200B
Samples beginning with "FD", "Field_Duplicate" and "DUP" are field duplicates and co-samples of the preceeding row
Shading indicates a detection greater than the NCAC 2L Groundwater Standard
Bold text indicates a detection greater than the laboratory reporting limit

APPENDIX A

LABORATORY ANALYTICAL REPORTS

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

December 11, 2020

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

RE: Project: 2020-L1-2448
Pace Project No.: 92509149

Dear Andrew Street:

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 - 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
Pace Project No.: 92509149

Pace Analytical Services National

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 2020-L1-2448
Pace Project No.: 92509149

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92509149001	**PMW-11@ (46'-48')**	Solid	11/30/20 13:30	12/02/20 14:43

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

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448
Pace Project No.: 92509149

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92509149001	**PMW-11@ (46'-48')**	MADEP VPH	BMB	6	PAN
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KDW	1	PAN

PAN = Pace National - Mt. Juliet
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
Pace Project No.: 92509149

Sample: PMW-11@ (46'-48') **Lab ID: 92509149001** Collected: 11/30/20 13:30 Received: 12/02/20 14:43 Matrix: Solid

Results reported on a "dry weight" 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)	**113**	mg/kg	7.13	2.38	1	11/30/20 13:30	12/05/20 10:38		
Aliphatic (C09-C12)	**284**	mg/kg	7.13	2.38	1	11/30/20 13:30	12/05/20 10:38		
Aromatic (C09-C10),Unadjusted	**321**	mg/kg	35.7	11.9	5	11/30/20 13:30	12/10/20 16:12	TPHC9C10A	
Total VPH	**397**	mg/kg	7.13	2.38	1	11/30/20 13:30	12/05/20 10:38	VPH	
Surrogates									
2,5-Dibromotoluene (FID)	88.0	%	70.0-130		1	11/30/20 13:30	12/05/20 10:38	615-59-8FID	
2,5-Dibromotoluene (FID)	81.9	%	70.0-130		5	11/30/20 13:30	12/10/20 16:12	615-59-8FID	
2,5-Dibromotoluene (PID)	76.7	%	70.0-130		1	11/30/20 13:30	12/05/20 10:38	615-59-8PID	
2,5-Dibromotoluene (PID)	81.5	%	70.0-130		5	11/30/20 13:30	12/10/20 16:12	615-59-8PID	
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte								
Acetone	**<130**	ug/kg	130	41.7	1	12/03/20 13:27	12/03/20 20:25	67-64-1	
Benzene	**32.2**	ug/kg	6.5	2.6	1	12/03/20 13:27	12/03/20 20:25	71-43-2	
Bromobenzene	**<6.5**	ug/kg	6.5	2.1	1	12/03/20 13:27	12/03/20 20:25	108-86-1	
Bromochloromethane	**<6.5**	ug/kg	6.5	1.9	1	12/03/20 13:27	12/03/20 20:25	74-97-5	
Bromodichloromethane	**<6.5**	ug/kg	6.5	2.5	1	12/03/20 13:27	12/03/20 20:25	75-27-4	IK
Bromoform	**<6.5**	ug/kg	6.5	2.3	1	12/03/20 13:27	12/03/20 20:25	75-25-2	
Bromomethane	**<13.0**	ug/kg	13.0	10.3	1	12/03/20 13:27	12/03/20 20:25	74-83-9	L1,v2
2-Butanone (MEK)	**<130**	ug/kg	130	31.2	1	12/03/20 13:27	12/03/20 20:25	78-93-3	
n-Butylbenzene	**465**	ug/kg	6.5	3.1	1	12/03/20 13:27	12/03/20 20:25	104-51-8	
sec-Butylbenzene	**<6.5**	ug/kg	6.5	2.9	1	12/03/20 13:27	12/03/20 20:25	135-98-8	
tert-Butylbenzene	**<6.5**	ug/kg	6.5	2.3	1	12/03/20 13:27	12/03/20 20:25	98-06-6	L2,v2
Carbon tetrachloride	**<6.5**	ug/kg	6.5	2.4	1	12/03/20 13:27	12/03/20 20:25	56-23-5	
Chlorobenzene	**<6.5**	ug/kg	6.5	1.2	1	12/03/20 13:27	12/03/20 20:25	108-90-7	
Chloroethane	**<13.0**	ug/kg	13.0	5.0	1	12/03/20 13:27	12/03/20 20:25	75-00-3	
Chloroform	**<6.5**	ug/kg	6.5	4.0	1	12/03/20 13:27	12/03/20 20:25	67-66-3	
Chloromethane	**<13.0**	ug/kg	13.0	5.5	1	12/03/20 13:27	12/03/20 20:25	74-87-3	
2-Chlorotoluene	**<6.5**	ug/kg	6.5	2.3	1	12/03/20 13:27	12/03/20 20:25	95-49-8	
4-Chlorotoluene	**<6.5**	ug/kg	6.5	1.1	1	12/03/20 13:27	12/03/20 20:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<6.5**	ug/kg	6.5	2.5	1	12/03/20 13:27	12/03/20 20:25	96-12-8	
Dibromochloromethane	**<6.5**	ug/kg	6.5	3.7	1	12/03/20 13:27	12/03/20 20:25	124-48-1	
1,2-Dibromoethane (EDB)	**<6.5**	ug/kg	6.5	2.9	1	12/03/20 13:27	12/03/20 20:25	106-93-4	
Dibromomethane	**<6.5**	ug/kg	6.5	1.4	1	12/03/20 13:27	12/03/20 20:25	74-95-3	
1,2-Dichlorobenzene	**<6.5**	ug/kg	6.5	2.3	1	12/03/20 13:27	12/03/20 20:25	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/kg	6.5	2.0	1	12/03/20 13:27	12/03/20 20:25	541-73-1	
1,4-Dichlorobenzene	**<6.5**	ug/kg	6.5	1.7	1	12/03/20 13:27	12/03/20 20:25	106-46-7	
Dichlorodifluoromethane	**<13.0**	ug/kg	13.0	2.8	1	12/03/20 13:27	12/03/20 20:25	75-71-8	
1,1-Dichloroethane	**<6.5**	ug/kg	6.5	2.7	1	12/03/20 13:27	12/03/20 20:25	75-34-3	
1,2-Dichloroethane	**<6.5**	ug/kg	6.5	4.3	1	12/03/20 13:27	12/03/20 20:25	107-06-2	
1,1-Dichloroethene	**<6.5**	ug/kg	6.5	2.7	1	12/03/20 13:27	12/03/20 20:25	75-35-4	
cis-1,2-Dichloroethene	**<6.5**	ug/kg	6.5	2.2	1	12/03/20 13:27	12/03/20 20:25	156-59-2	
trans-1,2-Dichloroethene	**<6.5**	ug/kg	6.5	2.3	1	12/03/20 13:27	12/03/20 20:25	156-60-5	
1,2-Dichloropropane	**<6.5**	ug/kg	6.5	1.9	1	12/03/20 13:27	12/03/20 20:25	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
Pace Project No.: 92509149

Sample: PMW-11@ (46'-48') **Lab ID: 92509149001** Collected: 11/30/20 13:30 Received: 12/02/20 14:43 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte								
1,3-Dichloropropane	**<6.5**	ug/kg	6.5	2.0	1	12/03/20 13:27	12/03/20 20:25	142-28-9	
2,2-Dichloropropane	**<6.5**	ug/kg	6.5	2.1	1	12/03/20 13:27	12/03/20 20:25	594-20-7	
1,1-Dichloropropene	**<6.5**	ug/kg	6.5	3.1	1	12/03/20 13:27	12/03/20 20:25	563-58-6	
cis-1,3-Dichloropropene	**<6.5**	ug/kg	6.5	1.8	1	12/03/20 13:27	12/03/20 20:25	10061-01-5	
trans-1,3-Dichloropropene	**<6.5**	ug/kg	6.5	2.2	1	12/03/20 13:27	12/03/20 20:25	10061-02-6	
Diisopropyl ether	**<6.5**	ug/kg	6.5	1.8	1	12/03/20 13:27	12/03/20 20:25	108-20-3	
Ethylbenzene	**705**	ug/kg	6.5	3.0	1	12/03/20 13:27	12/03/20 20:25	100-41-4	
Hexachloro-1,3-butadiene	**<13.0**	ug/kg	13.0	10.6	1	12/03/20 13:27	12/03/20 20:25	87-68-3	
2-Hexanone	**<65.0**	ug/kg	65.0	6.3	1	12/03/20 13:27	12/03/20 20:25	591-78-6	
Isopropylbenzene (Cumene)	**157**	ug/kg	6.5	2.2	1	12/03/20 13:27	12/03/20 20:25	98-82-8	
p-Isopropyltoluene	**<6.5**	ug/kg	6.5	3.2	1	12/03/20 13:27	12/03/20 20:25	99-87-6	
Methylene Chloride	**<26.0**	ug/kg	26.0	17.8	1	12/03/20 13:27	12/03/20 20:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**167**	ug/kg	65.0	6.3	1	12/03/20 13:27	12/03/20 20:25	108-10-1	
Methyl-tert-butyl ether	**<6.5**	ug/kg	6.5	2.4	1	12/03/20 13:27	12/03/20 20:25	1634-04-4	
Naphthalene	**1680**	ug/kg	6.5	3.4	1	12/03/20 13:27	12/03/20 20:25	91-20-3	
n-Propylbenzene	**662**	ug/kg	6.5	2.3	1	12/03/20 13:27	12/03/20 20:25	103-65-1	
Styrene	**<6.5**	ug/kg	6.5	1.7	1	12/03/20 13:27	12/03/20 20:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<6.5**	ug/kg	6.5	2.5	1	12/03/20 13:27	12/03/20 20:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<6.5**	ug/kg	6.5	1.7	1	12/03/20 13:27	12/03/20 20:25	79-34-5	
Tetrachloroethene	**<6.5**	ug/kg	6.5	2.1	1	12/03/20 13:27	12/03/20 20:25	127-18-4	
Toluene	**798**	ug/kg	6.5	1.8	1	12/03/20 13:27	12/03/20 20:25	108-88-3	
1,2,3-Trichlorobenzene	**<6.5**	ug/kg	6.5	5.2	1	12/03/20 13:27	12/03/20 20:25	87-61-6	
1,2,4-Trichlorobenzene	**<6.5**	ug/kg	6.5	5.5	1	12/03/20 13:27	12/03/20 20:25	120-82-1	
1,1,1-Trichloroethane	**<6.5**	ug/kg	6.5	3.4	1	12/03/20 13:27	12/03/20 20:25	71-55-6	
1,1,2-Trichloroethane	**<6.5**	ug/kg	6.5	2.2	1	12/03/20 13:27	12/03/20 20:25	79-00-5	
Trichloroethene	**<6.5**	ug/kg	6.5	1.7	1	12/03/20 13:27	12/03/20 20:25	79-01-6	
Trichlorofluoromethane	**<6.5**	ug/kg	6.5	3.6	1	12/03/20 13:27	12/03/20 20:25	75-69-4	
1,2,3-Trichloropropane	**<6.5**	ug/kg	6.5	3.3	1	12/03/20 13:27	12/03/20 20:25	96-18-4	
1,2,4-Trimethylbenzene	**5990**	ug/kg	6.5	1.8	1	12/03/20 13:27	12/03/20 20:25	95-63-6	
1,3,5-Trimethylbenzene	**1720**	ug/kg	6.5	2.2	1	12/03/20 13:27	12/03/20 20:25	108-67-8	
Vinyl acetate	**<65.0**	ug/kg	65.0	4.7	1	12/03/20 13:27	12/03/20 20:25	108-05-4	
Vinyl chloride	**<13.0**	ug/kg	13.0	3.3	1	12/03/20 13:27	12/03/20 20:25	75-01-4	
Xylene (Total)	**3930**	ug/kg	13.0	3.7	1	12/03/20 13:27	12/03/20 20:25	1330-20-7	
m&p-Xylene	**2560**	ug/kg	13.0	4.4	1	12/03/20 13:27	12/03/20 20:25	179601-23-1	
o-Xylene	**1380**	ug/kg	6.5	2.9	1	12/03/20 13:27	12/03/20 20:25	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1	12/03/20 13:27	12/03/20 20:25	2037-26-5	
4-Bromofluorobenzene (S)	104	%	69-134		1	12/03/20 13:27	12/03/20 20:25	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1	12/03/20 13:27	12/03/20 20:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte								
Percent Moisture	**8.7**	%	0.10	0.10	1		12/02/20 18:06		

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
Pace Project No.: 92509149

Sample: PMW-11@ (46'-48') **Lab ID: 92509149001** Collected: 11/30/20 13:30 Received: 12/02/20 14:43 Matrix: Solid

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

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**83.2**	%			1	12/08/20 23:00	12/08/20 23:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92509149

QC Batch: 1585903
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92509149001

METHOD BLANK: R3601142-3 Matrix: Solid
Associated Lab Samples: 92509149001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	<5.00	5.00	1.67	12/05/20 01:12	
Aliphatic (C09-C12)	mg/kg	<5.00	5.00	1.67	12/05/20 01:12	
Total VPH	mg/kg	<5.00	5.00	1.67	12/05/20 01:12	
2,5-Dibromotoluene (FID)	%	85.6	70.0-130		12/05/20 01:12	
2,5-Dibromotoluene (PID)	%	79.1	70.0-130		12/05/20 01:12	

LABORATORY CONTROL SAMPLE & LCSD: R3601142-1 R3601142-2

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	54.9	53.3	91.5	88.8	70.0-130	2.96	25	
Aliphatic (C09-C12)	mg/kg	70.0	72.3	71.4	103	102	70.0-130	1.25	25	
Total VPH	mg/kg	140	137	134	97.9	95.7	70.0-130	2.21	25	
2,5-Dibromotoluene (FID)	%				90.7	88.1	70.0-130			
2,5-Dibromotoluene (PID)	%				84.9	82.2	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3601142-4 R3601142-5

Parameter	Units	L1292204-05 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	ND	60.6	60.6	21.8	56.3	36.0	92.9	70.0-130	88.3	25	ML,R1
Aliphatic (C09-C12)	mg/kg	ND	70.7	70.7	33.0	79.9	46.7	113	70.0-130	83.1	25	ML,R1
Total VPH	mg/kg	ND	141	141	63.4	150	45.0	106	70.0-130	81.2	25	ML,R1
2,5-Dibromotoluene (FID)	%						83.5	82.0	70.0-130			
2,5-Dibromotoluene (PID)	%						77.0	77.6	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
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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92509149

QC Batch: 1588429
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92509149001

METHOD BLANK: R3602384-3 Matrix: Solid
Associated Lab Samples: 92509149001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	mg/kg	<5.00	5.00	1.67	12/10/20 11:02	
2,5-Dibromotoluene (FID)	%	87.9	70.0-130		12/10/20 11:02	
2,5-Dibromotoluene (PID)	%	87.2	70.0-130		12/10/20 11:02	

LABORATORY CONTROL SAMPLE & LCSD: R3602384-1 R3602384-2

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	11.0	10.7	110	107	70.0-130	2.76	25	
2,5-Dibromotoluene (FID)	%				94.5	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				96.2	93.8	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
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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92509149

QC Batch: 584341
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D 5035A 5030B
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509149001

METHOD BLANK: 3088970 Matrix: Solid
Associated Lab Samples: 92509149001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<5.0	5.0	1.9	12/03/20 14:10	
1,1,1-Trichloroethane	ug/kg	<5.0	5.0	2.6	12/03/20 14:10	
1,1,2,2-Tetrachloroethane	ug/kg	<5.0	5.0	1.3	12/03/20 14:10	
1,1,2-Trichloroethane	ug/kg	<5.0	5.0	1.7	12/03/20 14:10	
1,1-Dichloroethane	ug/kg	<5.0	5.0	2.1	12/03/20 14:10	
1,1-Dichloroethene	ug/kg	<5.0	5.0	2.1	12/03/20 14:10	
1,1-Dichloropropene	ug/kg	<5.0	5.0	2.4	12/03/20 14:10	
1,2,3-Trichlorobenzene	ug/kg	<5.0	5.0	4.0	12/03/20 14:10	
1,2,3-Trichloropropane	ug/kg	<5.0	5.0	2.5	12/03/20 14:10	
1,2,4-Trichlorobenzene	ug/kg	<5.0	5.0	4.2	12/03/20 14:10	
1,2,4-Trimethylbenzene	ug/kg	<5.0	5.0	1.4	12/03/20 14:10	
1,2-Dibromo-3-chloropropane	ug/kg	<5.0	5.0	1.9	12/03/20 14:10	
1,2-Dibromoethane (EDB)	ug/kg	<5.0	5.0	2.2	12/03/20 14:10	
1,2-Dichlorobenzene	ug/kg	<5.0	5.0	1.8	12/03/20 14:10	
1,2-Dichloroethane	ug/kg	<5.0	5.0	3.3	12/03/20 14:10	
1,2-Dichloropropane	ug/kg	<5.0	5.0	1.5	12/03/20 14:10	
1,3,5-Trimethylbenzene	ug/kg	<5.0	5.0	1.7	12/03/20 14:10	
1,3-Dichlorobenzene	ug/kg	<5.0	5.0	1.6	12/03/20 14:10	
1,3-Dichloropropane	ug/kg	<5.0	5.0	1.6	12/03/20 14:10	
1,4-Dichlorobenzene	ug/kg	<5.0	5.0	1.3	12/03/20 14:10	
2,2-Dichloropropane	ug/kg	<5.0	5.0	1.6	12/03/20 14:10	
2-Butanone (MEK)	ug/kg	<100	100	24.0	12/03/20 14:10	
2-Chlorotoluene	ug/kg	<5.0	5.0	1.8	12/03/20 14:10	
2-Hexanone	ug/kg	<50.0	50.0	4.8	12/03/20 14:10	
4-Chlorotoluene	ug/kg	<5.0	5.0	0.88	12/03/20 14:10	
4-Methyl-2-pentanone (MIBK)	ug/kg	<50.0	50.0	4.8	12/03/20 14:10	
Acetone	ug/kg	<100	100	32.1	12/03/20 14:10	
Benzene	ug/kg	<5.0	5.0	2.0	12/03/20 14:10	
Bromobenzene	ug/kg	<5.0	5.0	1.6	12/03/20 14:10	
Bromochloromethane	ug/kg	<5.0	5.0	1.5	12/03/20 14:10	
Bromodichloromethane	ug/kg	<5.0	5.0	1.9	12/03/20 14:10	IK
Bromoform	ug/kg	<5.0	5.0	1.8	12/03/20 14:10	
Bromomethane	ug/kg	<10.0	10.0	7.9	12/03/20 14:10	v1
Carbon tetrachloride	ug/kg	<5.0	5.0	1.9	12/03/20 14:10	
Chlorobenzene	ug/kg	<5.0	5.0	0.96	12/03/20 14:10	
Chloroethane	ug/kg	<10.0	10.0	3.9	12/03/20 14:10	
Chloroform	ug/kg	<5.0	5.0	3.0	12/03/20 14:10	
Chloromethane	ug/kg	<10.0	10.0	4.2	12/03/20 14:10	
cis-1,2-Dichloroethene	ug/kg	<5.0	5.0	1.7	12/03/20 14:10	
cis-1,3-Dichloropropene	ug/kg	<5.0	5.0	1.4	12/03/20 14:10	

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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
Pace Project No.: 92509149

METHOD BLANK: 3088970 Matrix: Solid
Associated Lab Samples: 92509149001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<5.0	5.0	2.8	12/03/20 14:10	
Dibromomethane	ug/kg	<5.0	5.0	1.1	12/03/20 14:10	
Dichlorodifluoromethane	ug/kg	<10.0	10.0	2.2	12/03/20 14:10	
Diisopropyl ether	ug/kg	<5.0	5.0	1.4	12/03/20 14:10	
Ethylbenzene	ug/kg	<5.0	5.0	2.3	12/03/20 14:10	
Hexachloro-1,3-butadiene	ug/kg	<10.0	10.0	8.2	12/03/20 14:10	
Isopropylbenzene (Cumene)	ug/kg	<5.0	5.0	1.7	12/03/20 14:10	
m&p-Xylene	ug/kg	<10.0	10.0	3.4	12/03/20 14:10	
Methyl-tert-butyl ether	ug/kg	<5.0	5.0	1.9	12/03/20 14:10	
Methylene Chloride	ug/kg	<20.0	20.0	13.7	12/03/20 14:10	
n-Butylbenzene	ug/kg	<5.0	5.0	2.4	12/03/20 14:10	
n-Propylbenzene	ug/kg	<5.0	5.0	1.8	12/03/20 14:10	
Naphthalene	ug/kg	<5.0	5.0	2.6	12/03/20 14:10	
o-Xylene	ug/kg	<5.0	5.0	2.2	12/03/20 14:10	
p-Isopropyltoluene	ug/kg	<5.0	5.0	2.5	12/03/20 14:10	
sec-Butylbenzene	ug/kg	<5.0	5.0	2.2	12/03/20 14:10	
Styrene	ug/kg	<5.0	5.0	1.3	12/03/20 14:10	
tert-Butylbenzene	ug/kg	<5.0	5.0	1.8	12/03/20 14:10	v2
Tetrachloroethene	ug/kg	<5.0	5.0	1.6	12/03/20 14:10	
Toluene	ug/kg	<5.0	5.0	1.4	12/03/20 14:10	
trans-1,2-Dichloroethene	ug/kg	<5.0	5.0	1.8	12/03/20 14:10	
trans-1,3-Dichloropropene	ug/kg	<5.0	5.0	1.7	12/03/20 14:10	
Trichloroethene	ug/kg	<5.0	5.0	1.3	12/03/20 14:10	
Trichlorofluoromethane	ug/kg	<5.0	5.0	2.8	12/03/20 14:10	
Vinyl acetate	ug/kg	<50.0	50.0	3.6	12/03/20 14:10	
Vinyl chloride	ug/kg	<10.0	10.0	2.5	12/03/20 14:10	
Xylene (Total)	ug/kg	<10.0	10.0	2.8	12/03/20 14:10	
1,2-Dichloroethane-d4 (S)	%	102	70-130		12/03/20 14:10	
4-Bromofluorobenzene (S)	%	99	69-134		12/03/20 14:10	
Toluene-d8 (S)	%	100	70-130		12/03/20 14:10	

LABORATORY CONTROL SAMPLE: 3088971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1090	87	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1270	102	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1070	86	70-130	
1,1,2-Trichloroethane	ug/kg	1250	1310	104	70-130	
1,1-Dichloroethane	ug/kg	1250	1160	93	70-130	
1,1-Dichloroethene	ug/kg	1250	1210	97	70-130	
1,1-Dichloropropene	ug/kg	1250	1170	94	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1220	97	65-130	
1,2,3-Trichloropropane	ug/kg	1250	1100	88	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1250	100	68-130	

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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
Pace Project No.: 92509149

LABORATORY CONTROL SAMPLE: 3088971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1250	1160	93	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1120	89	70-130	
1,2-Dibromoethane (EDB)	ug/kg	1250	1100	88	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1150	92	70-130	
1,2-Dichloroethane	ug/kg	1250	1280	102	63-130	
1,2-Dichloropropane	ug/kg	1250	1130	91	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1270	102	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1180	94	70-130	
1,3-Dichloropropane	ug/kg	1250	1140	91	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1180	94	70-130	
2,2-Dichloropropane	ug/kg	1250	1290	103	66-130	
2-Butanone (MEK)	ug/kg	2500	2470	99	70-130	
2-Chlorotoluene	ug/kg	1250	1130	90	70-130	
2-Hexanone	ug/kg	2500	2300	92	70-130	
4-Chlorotoluene	ug/kg	1250	1110	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2390	95	70-130	
Acetone	ug/kg	2500	2620	105	69-130	
Benzene	ug/kg	1250	1110	89	70-130	
Bromobenzene	ug/kg	1250	1160	93	70-130	
Bromochloromethane	ug/kg	1250	1300	104	70-130	
Bromodichloromethane	ug/kg	1250	1200	96	69-130	IK
Bromoform	ug/kg	1250	1100	88	70-130	
Bromomethane	ug/kg	1250	1630	131	52-130	L1,v1
Carbon tetrachloride	ug/kg	1250	1090	87	70-130	
Chlorobenzene	ug/kg	1250	1120	89	70-130	
Chloroethane	ug/kg	1250	1240	99	65-130	
Chloroform	ug/kg	1250	1150	92	70-130	
Chloromethane	ug/kg	1250	1060	85	55-130	
cis-1,2-Dichloroethene	ug/kg	1250	1140	91	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1150	92	70-130	
Dibromochloromethane	ug/kg	1250	1110	89	70-130	
Dibromomethane	ug/kg	1250	1220	97	70-130	
Dichlorodifluoromethane	ug/kg	1250	1240	99	45-156	
Diisopropyl ether	ug/kg	1250	1120	89	70-130	
Ethylbenzene	ug/kg	1250	1260	101	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1250	100	66-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1150	92	70-130	
m&p-Xylene	ug/kg	2500	2170	87	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1160	93	70-130	
Methylene Chloride	ug/kg	1250	1260	101	65-130	
n-Butylbenzene	ug/kg	1250	1190	96	67-130	
n-Propylbenzene	ug/kg	1250	1120	90	70-130	
Naphthalene	ug/kg	1250	1260	101	70-130	
o-Xylene	ug/kg	1250	1090	87	70-130	
p-Isopropyltoluene	ug/kg	1250	1160	93	67-130	
sec-Butylbenzene	ug/kg	1250	1160	93	69-130	
Styrene	ug/kg	1250	1110	89	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92509149

LABORATORY CONTROL SAMPLE: 3088971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1250	825	66	67-130	L2,v2
Tetrachloroethene	ug/kg	1250	1120	89	70-130	
Toluene	ug/kg	1250	1110	89	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1170	94	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1120	90	68-130	
Trichloroethene	ug/kg	1250	1140	91	70-130	
Trichlorofluoromethane	ug/kg	1250	1180	94	70-130	
Vinyl acetate	ug/kg	2500	2540	102	70-130	
Vinyl chloride	ug/kg	1250	1170	94	61-130	
Xylene (Total)	ug/kg	3750	3260	87	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			98	69-134	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3088973

Parameter	Units	92509139002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	801	605	75	70-131	
1,1,1-Trichloroethane	ug/kg	ND	801	700	87	65-133	
1,1,2,2-Tetrachloroethane	ug/kg	ND	801	639	80	66-130	
1,1,2-Trichloroethane	ug/kg	ND	801	752	94	66-133	
1,1-Dichloroethane	ug/kg	ND	801	649	81	65-130	
1,1-Dichloroethene	ug/kg	ND	801	580	72	10-158	
1,1-Dichloropropene	ug/kg	ND	801	660	82	68-133	
1,2,3-Trichlorobenzene	ug/kg	ND	801	678	85	27-138	
1,2,3-Trichloropropane	ug/kg	ND	801	616	77	67-130	
1,2,4-Trichlorobenzene	ug/kg	ND	801	692	86	51-134	
1,2,4-Trimethylbenzene	ug/kg	ND	801	654	82	63-136	
1,2-Dibromo-3-chloropropane	ug/kg	ND	801	554	69	32-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	801	643	80	70-130	
1,2-Dichlorobenzene	ug/kg	ND	801	671	84	69-130	
1,2-Dichloroethane	ug/kg	ND	801	725	91	59-130	
1,2-Dichloropropane	ug/kg	ND	801	669	84	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	801	708	88	65-137	
1,3-Dichlorobenzene	ug/kg	ND	801	676	84	70-130	
1,3-Dichloropropane	ug/kg	ND	801	670	84	70-130	
1,4-Dichlorobenzene	ug/kg	ND	801	657	82	68-130	
2,2-Dichloropropane	ug/kg	ND	801	629	79	32-130	
2-Butanone (MEK)	ug/kg	ND	1600	1300	81	10-136	
2-Chlorotoluene	ug/kg	ND	801	650	81	69-141	
2-Hexanone	ug/kg	ND	1600	1290	80	10-144	
4-Chlorotoluene	ug/kg	ND	801	623	78	70-132	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	1600	1400	87	25-143	
Acetone	ug/kg	ND	1600	1050	65	10-130	
Benzene	ug/kg	ND	801	661	82	67-130	

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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
Pace Project No.: 92509149

MATRIX SPIKE SAMPLE: 3088973

Parameter	Units	92509139002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	801	655	82	70-130	
Bromochloromethane	ug/kg	ND	801	736	92	69-134	
Bromodichloromethane	ug/kg	ND	801	641	80	64-130	IK
Bromoform	ug/kg	ND	801	529	66	62-130	
Bromomethane	ug/kg	ND	801	614	77	20-176	v1
Carbon tetrachloride	ug/kg	ND	801	582	73	65-140	
Chlorobenzene	ug/kg	ND	801	668	83	70-130	
Chloroethane	ug/kg	ND	801	18.4	2	10-130	M1
Chloroform	ug/kg	ND	801	649	81	63-130	
Chloromethane	ug/kg	ND	801	745	93	58-130	
cis-1,2-Dichloroethene	ug/kg	ND	801	655	82	66-130	
cis-1,3-Dichloropropene	ug/kg	ND	801	639	80	67-130	
Dibromochloromethane	ug/kg	ND	801	562	70	67-130	
Dibromomethane	ug/kg	ND	801	684	85	63-131	
Dichlorodifluoromethane	ug/kg	ND	801	686	86	44-180	
Diisopropyl ether	ug/kg	ND	801	621	78	63-130	
Ethylbenzene	ug/kg	ND	801	744	93	66-130	
Hexachloro-1,3-butadiene	ug/kg	ND	801	710	89	64-150	
Isopropylbenzene (Cumene)	ug/kg	ND	801	685	86	69-135	
m&p-Xylene	ug/kg	ND	1600	1280	80	60-133	
Methyl-tert-butyl ether	ug/kg	ND	801	640	80	65-130	
Methylene Chloride	ug/kg	ND	801	767	96	61-130	
n-Butylbenzene	ug/kg	ND	801	659	82	65-140	
n-Propylbenzene	ug/kg	ND	801	640	80	67-140	
Naphthalene	ug/kg	ND	801	698	87	15-145	
o-Xylene	ug/kg	ND	801	651	81	66-133	
p-Isopropyltoluene	ug/kg	ND	801	653	82	56-147	
sec-Butylbenzene	ug/kg	ND	801	671	84	65-139	
Styrene	ug/kg	ND	801	650	81	70-132	
tert-Butylbenzene	ug/kg	ND	801	479	60	62-135	M0,v2
Tetrachloroethene	ug/kg	ND	801	629	79	70-135	
Toluene	ug/kg	ND	801	663	83	67-130	
trans-1,2-Dichloroethene	ug/kg	ND	801	656	82	69-130	
trans-1,3-Dichloropropene	ug/kg	ND	801	608	76	62-130	
Trichloroethene	ug/kg	ND	801	674	84	70-135	
Trichlorofluoromethane	ug/kg	ND	801	164	20	10-130	
Vinyl acetate	ug/kg	ND	1600	1310	82	53-130	
Vinyl chloride	ug/kg	ND	801	702	88	61-148	
Xylene (Total)	ug/kg	ND	2400	1930	80	63-132	
1,2-Dichloroethane-d4 (S)	%				113	70-130	
4-Bromofluorobenzene (S)	%				101	69-134	
Toluene-d8 (S)	%				101	70-130	

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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
Pace Project No.: 92509149

SAMPLE DUPLICATE: 3088972

Parameter	Units	92509139001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	<10.9		30	
1,1,1-Trichloroethane	ug/kg	ND	<10.9		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	<10.9		30	
1,1,2-Trichloroethane	ug/kg	ND	<10.9		30	
1,1-Dichloroethane	ug/kg	ND	<10.9		30	
1,1-Dichloroethene	ug/kg	ND	<10.9		30	
1,1-Dichloropropene	ug/kg	ND	<10.9		30	
1,2,3-Trichlorobenzene	ug/kg	ND	<10.9		30	
1,2,3-Trichloropropane	ug/kg	ND	<10.9		30	
1,2,4-Trichlorobenzene	ug/kg	ND	<10.9		30	
1,2,4-Trimethylbenzene	ug/kg	ND	<10.9		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	<10.9		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	<10.9		30	
1,2-Dichlorobenzene	ug/kg	ND	<10.9		30	
1,2-Dichloroethane	ug/kg	ND	<10.9		30	
1,2-Dichloropropane	ug/kg	ND	<10.9		30	
1,3,5-Trimethylbenzene	ug/kg	ND	<10.9		30	
1,3-Dichlorobenzene	ug/kg	ND	<10.9		30	
1,3-Dichloropropane	ug/kg	ND	<10.9		30	
1,4-Dichlorobenzene	ug/kg	ND	<10.9		30	
2,2-Dichloropropane	ug/kg	ND	<10.9		30	
2-Butanone (MEK)	ug/kg	ND	<219		30	
2-Chlorotoluene	ug/kg	ND	<10.9		30	
2-Hexanone	ug/kg	ND	<109		30	
4-Chlorotoluene	ug/kg	ND	<10.9		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	<109		30	
Acetone	ug/kg	ND	<219		30	
Benzene	ug/kg	ND	<10.9		30	
Bromobenzene	ug/kg	ND	<10.9		30	
Bromochloromethane	ug/kg	ND	<10.9		30	
Bromodichloromethane	ug/kg	ND	<10.9		30	IK
Bromoform	ug/kg	ND	<10.9		30	
Bromomethane	ug/kg	ND	<21.9		30	v1
Carbon tetrachloride	ug/kg	ND	<10.9		30	
Chlorobenzene	ug/kg	ND	<10.9		30	
Chloroethane	ug/kg	ND	<21.9		30	
Chloroform	ug/kg	ND	<10.9		30	
Chloromethane	ug/kg	ND	<21.9		30	
cis-1,2-Dichloroethene	ug/kg	ND	<10.9		30	
cis-1,3-Dichloropropene	ug/kg	ND	<10.9		30	
Dibromochloromethane	ug/kg	ND	<10.9		30	
Dibromomethane	ug/kg	ND	<10.9		30	
Dichlorodifluoromethane	ug/kg	ND	<21.9		30	
Diisopropyl ether	ug/kg	ND	<10.9		30	
Ethylbenzene	ug/kg	ND	<10.9		30	
Hexachloro-1,3-butadiene	ug/kg	ND	<21.9		30	
Isopropylbenzene (Cumene)	ug/kg	ND	<10.9		30	

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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
Pace Project No.: 92509149

SAMPLE DUPLICATE: 3088972

Parameter	Units	92509139001 Result	Dup Result	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/kg	ND	<21.9		30	
Methyl-tert-butyl ether	ug/kg	ND	<10.9		30	
Methylene Chloride	ug/kg	ND	<43.7		30	
n-Butylbenzene	ug/kg	ND	<10.9		30	
n-Propylbenzene	ug/kg	ND	<10.9		30	
Naphthalene	ug/kg	ND	<10.9		30	
o-Xylene	ug/kg	ND	<10.9		30	
p-Isopropyltoluene	ug/kg	ND	<10.9		30	
sec-Butylbenzene	ug/kg	ND	<10.9		30	
Styrene	ug/kg	ND	<10.9		30	
tert-Butylbenzene	ug/kg	ND	<10.9		30	v2
Tetrachloroethene	ug/kg	ND	<10.9		30	
Toluene	ug/kg	ND	<10.9		30	
trans-1,2-Dichloroethene	ug/kg	ND	<10.9		30	
trans-1,3-Dichloropropene	ug/kg	ND	<10.9		30	
Trichloroethene	ug/kg	ND	<10.9		30	
Trichlorofluoromethane	ug/kg	ND	<10.9		30	
Vinyl acetate	ug/kg	ND	<109		30	
Vinyl chloride	ug/kg	ND	<21.9		30	
Xylene (Total)	ug/kg	ND	<21.9		30	
1,2-Dichloroethane-d4 (S)	%	103	103			
4-Bromofluorobenzene (S)	%	100	103			
Toluene-d8 (S)	%	101	101			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92509149

QC Batch: 584068
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92509149001

SAMPLE DUPLICATE: 3088001

Parameter	Units	92509136005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.3	18.7	3	25	

SAMPLE DUPLICATE: 3088002

Parameter	Units	92508730011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.0	25.3	6	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92509149

QC Batch: 1588097
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: 92509149001

METHOD BLANK: R3601673-1 Matrix: Solid
Associated Lab Samples: 92509149001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00300			12/08/20 23:27	

LABORATORY CONTROL SAMPLE: R3601673-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.2	100	85.0-115	

SAMPLE DUPLICATE: R3601673-3

Parameter	Units	L1293015-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	82.2	83.3	1.37	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-L1-2448
Pace Project No.: 92509149

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.

WORKORDER QUALIFIERS

WO: 92509149

[1]	Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448
Pace Project No.: 92509149

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92509149001	**PMW-11@ (46'-48')**	MADEPV	1585903	MADEP VPH	1585903
92509149001	**PMW-11@ (46'-48')**	MADEPV	1588429	MADEP VPH	1588429
92509149001	**PMW-11@ (46'-48')**	EPA 5035A/5030B	584341	EPA 8260D	584401
92509149001	**PMW-11@ (46'-48')**	ASTM D2974-87	584068		
92509149001	**PMW-11@ (46'-48')**	SM 2540 G	1588097	SM 2540G	1588097

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY

WO# : 92509149

92509149

WO# : 92509149

PM: AMB Due Date: 12/09/20

CLIENT: 92-APEX MOOR

Company: Apex Companies, LLC	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 2020-61-2448	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): Thomas Fisher	Purchase Order #: Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: STD	Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] 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 T... (6) methanol, (7) ... (C) ammonium hy... , (5) zinc acetate, ...onium sulfate,

Container Pre...

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	~~BTEX~~ TMF VOC 8260	MADEP VPH	LAB USE ONLY: Lab Sample # / Comments:
PMW-11@(46'-48')	SL	G	11/30/20	13:30					X	X	92509149 001

... Checklist:

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

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet (circled) Blue Dry None

Packing Material Used: Ziplock Bag

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

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

Lab Tracking #: 2539000

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

Lab Sample Temperature Info:
Temp Blank Received: Y N NA (circled)
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 6.4 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 6.3 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Thomas Fisher / Apex	11/30/20 / 1730	[signature]	11/30/2020 17:30 ones
[signature]	12/2/2020 13:50	[signature] Apex	12/2/20 1351
[signature] / Apex	12/2/20 1441	LDH PACE HVC	12/2/20 1443

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

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

Non Conformance(s): YES (circled) / NO

Page: ___ of: ___

EH 12/2/20

Pace Analytical
www.pacelabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 12/2/20	Evaluated by: EH
Client: APEX	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here
9250914 9

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:

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	X	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: Samples arrived in temp at 6.4°

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: Apex Co.	Contacted per: email	
PM Initials: AMB	Date/Time: 12/2 @ 1514	

Client Comments/Instructions:
okay to proceed and footnote.

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

December 30, 2020

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

RE: Project: 2020-L1-2448
Pace Project No.: 92512978

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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
- 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
Pace Project No.: 92512978

Pace Analytical Services National

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

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
Pace Project No.: 92512978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512978001	**MW-69 (44'-46')**	MADEP VPH	JHH	6	PAN
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	CMK	1	PAN
92512978002	**MW-64 (36'-38')**	MADEP VPH	JHH	6	PAN
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	CMK	1	PAN

PAN = Pace National - Mt. Juliet
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
Pace Project No.: 92512978

Sample: MW-69 (44'-46') **Lab ID: 92512978001** Collected: 12/15/20 14:00 Received: 12/18/20 17:39 Matrix: 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)	ND	mg/kg	6.61	1.12	12/15/20 14:00	12/29/20 00:46		
Aliphatic (C09-C12)	**13.7**	mg/kg	6.61	1.12	12/15/20 14:00	12/29/20 00:46		
Aromatic (C09-C10),Unadjusted	**15.0**	mg/kg	6.61	1.12	12/15/20 14:00	12/29/20 00:46	TPHC9C10A	
Total VPH	**32.0**	mg/kg	6.61	1.12	12/15/20 14:00	12/29/20 00:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.0	%	70.0-130	1.12	12/15/20 14:00	12/29/20 00:46	615-59-8FID	
2,5-Dibromotoluene (PID)	80.6	%	70.0-130	1.12	12/15/20 14:00	12/29/20 00:46	615-59-8PID	
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	133	1	12/21/20 16:35	12/21/20 23:52	67-64-1	
Benzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	71-43-2	
Bromobenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	108-86-1	
Bromochloromethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	74-97-5	
Bromodichloromethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	75-27-4	IK
Bromoform	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	75-25-2	
Bromomethane	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	133	1	12/21/20 16:35	12/21/20 23:52	78-93-3	
n-Butylbenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	56-23-5	
Chlorobenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	108-90-7	
Chloroethane	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	75-00-3	
Chloroform	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	67-66-3	
Chloromethane	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	96-12-8	
Dibromochloromethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	106-93-4	
Dibromomethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	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-L1-2448
Pace Project No.: 92512978

Sample: MW-69 (44'-46') **Lab ID: 92512978001** Collected: 12/15/20 14:00 Received: 12/18/20 17:39 Matrix: 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
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
cis-1,3-Dichloropropene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	108-20-3	
Ethylbenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	87-68-3	
2-Hexanone	ND	ug/kg	66.6	1	12/21/20 16:35	12/21/20 23:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	99-87-6	
Methylene Chloride	ND	ug/kg	26.6	1	12/21/20 16:35	12/21/20 23:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	66.6	1	12/21/20 16:35	12/21/20 23:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	1634-04-4	
Naphthalene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	91-20-3	
n-Propylbenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	103-65-1	
Styrene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	79-34-5	
Tetrachloroethene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	127-18-4	
Toluene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	79-00-5	
Trichloroethene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	108-67-8	
Vinyl acetate	ND	ug/kg	66.6	1	12/21/20 16:35	12/21/20 23:52	108-05-4	
Vinyl chloride	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	75-01-4	
Xylene (Total)	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	1330-20-7	
m&p-Xylene	ND	ug/kg	13.3	1	12/21/20 16:35	12/21/20 23:52	179601-23-1	
o-Xylene	ND	ug/kg	6.7	1	12/21/20 16:35	12/21/20 23:52	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	12/21/20 16:35	12/21/20 23:52	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	12/21/20 16:35	12/21/20 23:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1	12/21/20 16:35	12/21/20 23:52	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte							
Percent Moisture	**8.9**	%	0.10	1		12/21/20 14:06		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**91.3**	%		1	12/23/20 15:07	12/23/20 15:23		

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
Pace Project No.: 92512978

Sample: MW-64 (36'-38') **Lab ID: 92512978002** Collected: 12/17/20 16:00 Received: 12/18/20 17:39 Matrix: 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)	ND	mg/kg	6.60	1.12	12/17/20 16:00	12/29/20 01:19		
Aliphatic (C09-C12)	**6.74**	mg/kg	6.60	1.12	12/17/20 16:00	12/29/20 01:19		
Aromatic (C09-C10),Unadjusted	**11.1**	mg/kg	6.60	1.12	12/17/20 16:00	12/29/20 01:19	TPHC9C10A	ML
Total VPH	**17.8**	mg/kg	6.60	1.12	12/17/20 16:00	12/29/20 01:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.9	%	70.0-130	1.12	12/17/20 16:00	12/29/20 01:19	615-59-8FID	
2,5-Dibromotoluene (PID)	79.5	%	70.0-130	1.12	12/17/20 16:00	12/29/20 01:19	615-59-8PID	
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	126	1	12/21/20 16:35	12/22/20 00:09	67-64-1	
Benzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	71-43-2	
Bromobenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	108-86-1	
Bromochloromethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	74-97-5	
Bromodichloromethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	75-27-4	IK
Bromoform	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	75-25-2	
Bromomethane	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	126	1	12/21/20 16:35	12/22/20 00:09	78-93-3	
n-Butylbenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	56-23-5	
Chlorobenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	108-90-7	
Chloroethane	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	75-00-3	
Chloroform	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	67-66-3	
Chloromethane	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	96-12-8	
Dibromochloromethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	106-93-4	
Dibromomethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	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-L1-2448
Pace Project No.: 92512978

Sample: MW-64 (36'-38') **Lab ID: 92512978002** Collected: 12/17/20 16:00 Received: 12/18/20 17:39 Matrix: 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
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
cis-1,3-Dichloropropene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	108-20-3	
Ethylbenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	87-68-3	
2-Hexanone	ND	ug/kg	62.8	1	12/21/20 16:35	12/22/20 00:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	99-87-6	
Methylene Chloride	ND	ug/kg	25.1	1	12/21/20 16:35	12/22/20 00:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	62.8	1	12/21/20 16:35	12/22/20 00:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	1634-04-4	
Naphthalene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	91-20-3	
n-Propylbenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	103-65-1	
Styrene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	79-34-5	
Tetrachloroethene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	127-18-4	
Toluene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	79-00-5	
Trichloroethene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	108-67-8	
Vinyl acetate	ND	ug/kg	62.8	1	12/21/20 16:35	12/22/20 00:09	108-05-4	
Vinyl chloride	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	75-01-4	
Xylene (Total)	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	1330-20-7	
m&p-Xylene	ND	ug/kg	12.6	1	12/21/20 16:35	12/22/20 00:09	179601-23-1	
o-Xylene	ND	ug/kg	6.3	1	12/21/20 16:35	12/22/20 00:09	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	12/21/20 16:35	12/22/20 00:09	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	12/21/20 16:35	12/22/20 00:09	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	12/21/20 16:35	12/22/20 00:09	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte							
Percent Moisture	**9.5**	%	0.10	1		12/21/20 14:06		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**91.4**	%		1	12/23/20 15:07	12/23/20 15:23		

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
Pace Project No.: 92512978

QC Batch: 1597412
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92512978001, 92512978002

METHOD BLANK: R3608261-3 Matrix: Solid
Associated Lab Samples: 92512978001, 92512978002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	12/28/20 13:43	
Aliphatic (C09-C12)	mg/kg	ND	5.00	12/28/20 13:43	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	12/28/20 13:43	
Total VPH	mg/kg	ND	5.00	12/28/20 13:43	
2,5-Dibromotoluene (FID)	%	79.7	70.0-130	12/28/20 13:43	
2,5-Dibromotoluene (PID)	%	71.9	70.0-130	12/28/20 13:43	

LABORATORY CONTROL SAMPLE & LCSD: R3608261-1 R3608261-2

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	62.2	62.0	104	103	70.0-130	0.322	25	
Aliphatic (C09-C12)	mg/kg	70.0	86.1	86.8	123	124	70.0-130	0.810	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	11.0	11.0	110	110	70.0-130	0.00	25	
Total VPH	mg/kg	140	159	160	114	114	70.0-130	0.627	25	
2,5-Dibromotoluene (FID)	%				96.0	96.2	70.0-130			
2,5-Dibromotoluene (PID)	%				88.1	87.4	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3608261-4 R3608261-5

Parameter	Units	92512978002 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	79.2	79.2	91.7	95.5	116	121	70.0-130	4.03	
Aliphatic (C09-C12)	mg/kg	6.74	92.4	92.4	110	113	112	115	70.0-130	2.43	
Aromatic (C09-C10),Unadjusted	mg/kg	11.1	13.2	13.2	15.9	15.6	36.8	34.1	70.0-130	2.25	ML
Total VPH	mg/kg	17.8	185	185	218	224	108	111	70.0-130	2.67	
2,5-Dibromotoluene (FID)	%						91.3	87.4	70.0-130		
2,5-Dibromotoluene (PID)	%						82.3	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
Pace Project No.: 92512978

QC Batch: 588605
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D 5035A 5030B
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92512978001, 92512978002

METHOD BLANK: 3110066 Matrix: Solid
Associated Lab Samples: 92512978001, 92512978002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/21/20 18:19	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/21/20 18:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/21/20 18:19	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/21/20 18:19	
1,1-Dichloroethane	ug/kg	ND	5.0	12/21/20 18:19	
1,1-Dichloroethene	ug/kg	ND	5.0	12/21/20 18:19	
1,1-Dichloropropene	ug/kg	ND	5.0	12/21/20 18:19	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/21/20 18:19	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/21/20 18:19	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/21/20 18:19	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/21/20 18:19	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	12/21/20 18:19	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/21/20 18:19	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/21/20 18:19	
1,2-Dichloroethane	ug/kg	ND	5.0	12/21/20 18:19	
1,2-Dichloropropane	ug/kg	ND	5.0	12/21/20 18:19	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/21/20 18:19	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/21/20 18:19	
1,3-Dichloropropane	ug/kg	ND	5.0	12/21/20 18:19	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/21/20 18:19	
2,2-Dichloropropane	ug/kg	ND	5.0	12/21/20 18:19	
2-Butanone (MEK)	ug/kg	ND	100	12/21/20 18:19	
2-Chlorotoluene	ug/kg	ND	5.0	12/21/20 18:19	
2-Hexanone	ug/kg	ND	50.0	12/21/20 18:19	
4-Chlorotoluene	ug/kg	ND	5.0	12/21/20 18:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	12/21/20 18:19	
Acetone	ug/kg	ND	100	12/21/20 18:19	
Benzene	ug/kg	ND	5.0	12/21/20 18:19	
Bromobenzene	ug/kg	ND	5.0	12/21/20 18:19	
Bromochloromethane	ug/kg	ND	5.0	12/21/20 18:19	
Bromodichloromethane	ug/kg	ND	5.0	12/21/20 18:19	IK
Bromoform	ug/kg	ND	5.0	12/21/20 18:19	
Bromomethane	ug/kg	ND	10.0	12/21/20 18:19	
Carbon tetrachloride	ug/kg	ND	5.0	12/21/20 18:19	
Chlorobenzene	ug/kg	ND	5.0	12/21/20 18:19	
Chloroethane	ug/kg	ND	10.0	12/21/20 18:19	
Chloroform	ug/kg	ND	5.0	12/21/20 18:19	
Chloromethane	ug/kg	ND	10.0	12/21/20 18:19	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/21/20 18:19	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/21/20 18:19	

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

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
Pace Project No.: 92512978

METHOD BLANK: 3110066 Matrix: Solid
Associated Lab Samples: 92512978001, 92512978002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	12/21/20 18:19	
Dibromomethane	ug/kg	ND	5.0	12/21/20 18:19	
Dichlorodifluoromethane	ug/kg	ND	10.0	12/21/20 18:19	
Diisopropyl ether	ug/kg	ND	5.0	12/21/20 18:19	
Ethylbenzene	ug/kg	ND	5.0	12/21/20 18:19	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	12/21/20 18:19	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/21/20 18:19	
m&p-Xylene	ug/kg	ND	10.0	12/21/20 18:19	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/21/20 18:19	
Methylene Chloride	ug/kg	ND	20.0	12/21/20 18:19	
n-Butylbenzene	ug/kg	ND	5.0	12/21/20 18:19	
n-Propylbenzene	ug/kg	ND	5.0	12/21/20 18:19	
Naphthalene	ug/kg	ND	5.0	12/21/20 18:19	
o-Xylene	ug/kg	ND	5.0	12/21/20 18:19	
p-Isopropyltoluene	ug/kg	ND	5.0	12/21/20 18:19	
sec-Butylbenzene	ug/kg	ND	5.0	12/21/20 18:19	
Styrene	ug/kg	ND	5.0	12/21/20 18:19	
tert-Butylbenzene	ug/kg	ND	5.0	12/21/20 18:19	
Tetrachloroethene	ug/kg	ND	5.0	12/21/20 18:19	
Toluene	ug/kg	ND	5.0	12/21/20 18:19	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/21/20 18:19	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/21/20 18:19	
Trichloroethene	ug/kg	ND	5.0	12/21/20 18:19	
Trichlorofluoromethane	ug/kg	ND	5.0	12/21/20 18:19	
Vinyl acetate	ug/kg	ND	50.0	12/21/20 18:19	
Vinyl chloride	ug/kg	ND	10.0	12/21/20 18:19	
Xylene (Total)	ug/kg	ND	10.0	12/21/20 18:19	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/21/20 18:19	
4-Bromofluorobenzene (S)	%	99	69-134	12/21/20 18:19	
Toluene-d8 (S)	%	100	70-130	12/21/20 18:19	

LABORATORY CONTROL SAMPLE: 3110067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1150	92	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1220	98	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1160	93	70-130	
1,1,2-Trichloroethane	ug/kg	1250	1330	106	70-130	
1,1-Dichloroethane	ug/kg	1250	1130	91	70-130	
1,1-Dichloroethene	ug/kg	1250	1130	91	70-130	
1,1-Dichloropropene	ug/kg	1250	1120	89	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1250	100	65-130	
1,2,3-Trichloropropane	ug/kg	1250	1190	95	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1260	101	68-130	

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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
Pace Project No.: 92512978

LABORATORY CONTROL SAMPLE: 3110067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1250	1180	94	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1220	98	70-130	
1,2-Dibromoethane (EDB)	ug/kg	1250	1200	96	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1190	95	70-130	
1,2-Dichloroethane	ug/kg	1250	1250	100	63-130	
1,2-Dichloropropane	ug/kg	1250	1140	92	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1300	104	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1230	98	70-130	
1,3-Dichloropropane	ug/kg	1250	1220	97	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1210	97	70-130	
2,2-Dichloropropane	ug/kg	1250	1250	100	66-130	
2-Butanone (MEK)	ug/kg	2500	2520	101	70-130	
2-Chlorotoluene	ug/kg	1250	1170	93	70-130	
2-Hexanone	ug/kg	2500	2570	103	70-130	
4-Chlorotoluene	ug/kg	1250	1110	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2460	98	70-130	
Acetone	ug/kg	2500	2770	111	69-130	
Benzene	ug/kg	1250	1130	90	70-130	
Bromobenzene	ug/kg	1250	1200	96	70-130	
Bromochloromethane	ug/kg	1250	1310	105	70-130	
Bromodichloromethane	ug/kg	1250	1230	98	69-130	IK
Bromoform	ug/kg	1250	1210	97	70-130	
Bromomethane	ug/kg	1250	1370	110	52-130	
Carbon tetrachloride	ug/kg	1250	1070	86	70-130	
Chlorobenzene	ug/kg	1250	1180	94	70-130	
Chloroethane	ug/kg	1250	1250	100	65-130	
Chloroform	ug/kg	1250	1120	90	70-130	
Chloromethane	ug/kg	1250	1060	85	55-130	
cis-1,2-Dichloroethene	ug/kg	1250	1130	90	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1180	94	70-130	
Dibromochloromethane	ug/kg	1250	1220	97	70-130	
Dibromomethane	ug/kg	1250	1280	103	70-130	
Dichlorodifluoromethane	ug/kg	1250	1200	96	45-156	
Diisopropyl ether	ug/kg	1250	1070	86	70-130	
Ethylbenzene	ug/kg	1250	1310	105	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1130	91	66-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1180	94	70-130	
m&p-Xylene	ug/kg	2500	2240	89	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1140	91	70-130	
Methylene Chloride	ug/kg	1250	1260	101	65-130	
n-Butylbenzene	ug/kg	1250	1160	93	67-130	
n-Propylbenzene	ug/kg	1250	1140	91	70-130	
Naphthalene	ug/kg	1250	1300	104	70-130	
o-Xylene	ug/kg	1250	1130	90	70-130	
p-Isopropyltoluene	ug/kg	1250	1160	93	67-130	
sec-Butylbenzene	ug/kg	1250	1170	94	69-130	
Styrene	ug/kg	1250	1140	92	70-130	

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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
Pace Project No.: 92512978

LABORATORY CONTROL SAMPLE: 3110067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1250	1150	92	67-130	
Tetrachloroethene	ug/kg	1250	1220	98	70-130	
Toluene	ug/kg	1250	1100	88	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1160	93	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1130	91	68-130	
Trichloroethene	ug/kg	1250	1150	92	70-130	
Trichlorofluoromethane	ug/kg	1250	1140	91	70-130	
Vinyl acetate	ug/kg	2500	2340	94	70-130	
Vinyl chloride	ug/kg	1250	1140	91	61-130	
Xylene (Total)	ug/kg	3750	3360	90	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			96	69-134	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3110068 3110069

Parameter	Units	92512776002 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/kg	ND	500	500	526	524	105	105	70-131	0	
1,1,1-Trichloroethane	ug/kg	ND	500	500	498	487	100	97	65-133	2	
1,1,2,2-Tetrachloroethane	ug/kg	ND	500	500	500	495	100	99	66-130	1	
1,1,2-Trichloroethane	ug/kg	ND	500	500	551	553	110	111	66-133	0	
1,1-Dichloroethane	ug/kg	ND	500	500	496	497	99	99	65-130	0	
1,1-Dichloroethene	ug/kg	ND	500	500	514	517	103	103	10-158	1	
1,1-Dichloropropene	ug/kg	ND	500	500	476	495	95	99	68-133	4	
1,2,3-Trichlorobenzene	ug/kg	ND	500	500	468	479	94	96	27-138	2	
1,2,3-Trichloropropane	ug/kg	ND	500	500	440	430	88	86	67-130	2	
1,2,4-Trichlorobenzene	ug/kg	ND	500	500	477	512	95	102	51-134	7	
1,2,4-Trimethylbenzene	ug/kg	ND	500	500	502	511	100	102	63-136	2	
1,2-Dibromo-3-chloropropane	ug/kg	ND	500	500	474	472	95	94	32-130	0	
1,2-Dibromoethane (EDB)	ug/kg	ND	500	500	543	531	109	106	70-130	2	
1,2-Dichlorobenzene	ug/kg	ND	500	500	493	501	99	100	69-130	2	
1,2-Dichloroethane	ug/kg	ND	500	500	480	486	96	97	59-130	1	
1,2-Dichloropropane	ug/kg	ND	500	500	548	537	110	107	70-130	2	
1,3,5-Trimethylbenzene	ug/kg	ND	500	500	494	513	99	103	65-137	4	
1,3-Dichlorobenzene	ug/kg	ND	500	500	486	498	97	100	70-130	2	
1,3-Dichloropropane	ug/kg	ND	500	500	528	521	106	104	70-130	1	
1,4-Dichlorobenzene	ug/kg	ND	500	500	464	483	93	97	68-130	4	
2,2-Dichloropropane	ug/kg	ND	500	500	384	383	77	77	32-130	0	v3
2-Butanone (MEK)	ug/kg	ND	1000	1000	810	820	81	82	10-136	1	
2-Chlorotoluene	ug/kg	ND	500	500	498	506	100	101	69-141	2	
2-Hexanone	ug/kg	ND	1000	1000	902	862	90	86	10-144	5	
4-Chlorotoluene	ug/kg	ND	500	500	484	502	97	100	70-132	3	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	1000	1000	971	945	97	95	25-143	3	
Acetone	ug/kg	ND	1000	1000	694	676	69	68	10-130	3	

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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
Pace Project No.: 92512978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3110068 3110069

Parameter	Units	92512776002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/kg	ND	500	500	544	538	109	108	67-130	1	
Bromobenzene	ug/kg	ND	500	500	511	518	102	104	70-130	1	
Bromochloromethane	ug/kg	ND	500	500	497	512	99	102	69-134	3	
Bromodichloromethane	ug/kg	ND	500	500	505	506	101	101	64-130	0	
Bromoform	ug/kg	ND	500	500	514	506	103	101	62-130	1	
Bromomethane	ug/kg	ND	500	500	368	366	74	73	20-176	0	IK
Carbon tetrachloride	ug/kg	ND	500	500	492	499	98	100	65-140	1	
Chlorobenzene	ug/kg	ND	500	500	532	533	106	107	70-130	0	
Chloroethane	ug/kg	ND	500	500	89.9	91.9	18	18	10-130	2	
Chloroform	ug/kg	ND	500	500	488	482	98	96	63-130	1	
Chloromethane	ug/kg	ND	500	500	501	511	100	102	58-130	2	
cis-1,2-Dichloroethene	ug/kg	ND	500	500	474	481	95	96	66-130	2	
cis-1,3-Dichloropropene	ug/kg	ND	500	500	522	517	104	103	67-130	1	
Dibromochloromethane	ug/kg	ND	500	500	521	518	104	104	67-130	1	
Dibromomethane	ug/kg	ND	500	500	564	559	113	112	63-131	1	
Dichlorodifluoromethane	ug/kg	ND	500	500	540	552	108	110	44-180	2	
Diisopropyl ether	ug/kg	ND	500	500	443	444	89	89	63-130	0	
Ethylbenzene	ug/kg	ND	500	500	483	484	97	97	66-130	0	
Hexachloro-1,3-butadiene	ug/kg	ND	500	500	457	483	91	97	64-150	5	
Isopropylbenzene (Cumene)	ug/kg	ND	500	500	506	510	101	102	69-135	1	
m&p-Xylene	ug/kg	ND	1000	1000	1010	1020	101	102	60-133	2	
Methyl-tert-butyl ether	ug/kg	ND	500	500	455	458	91	92	65-130	1	
Methylene Chloride	ug/kg	ND	500	500	462	451	92	90	61-130	2	
n-Butylbenzene	ug/kg	ND	500	500	441	477	88	95	65-140	8	
n-Propylbenzene	ug/kg	ND	500	500	482	492	96	98	67-140	2	
Naphthalene	ug/kg	ND	500	500	492	502	98	100	15-145	2	
o-Xylene	ug/kg	ND	500	500	524	522	105	104	66-133	0	
p-Isopropyltoluene	ug/kg	ND	500	500	471	486	94	97	56-147	3	
sec-Butylbenzene	ug/kg	ND	500	500	493	508	99	102	65-139	3	
Styrene	ug/kg	ND	500	500	532	529	106	106	70-132	1	
tert-Butylbenzene	ug/kg	ND	500	500	501	492	100	98	62-135	2	
Tetrachloroethene	ug/kg	ND	500	500	499	512	100	102	70-135	3	
Toluene	ug/kg	ND	500	500	533	536	107	107	67-130	0	
trans-1,2-Dichloroethene	ug/kg	ND	500	500	491	501	98	100	69-130	2	
trans-1,3-Dichloropropene	ug/kg	ND	500	500	480	474	96	95	62-130	1	
Trichloroethene	ug/kg	ND	500	500	550	545	110	109	70-135	1	
Trichlorofluoromethane	ug/kg	ND	500	500	125	123	25	25	10-130	1	
Vinyl acetate	ug/kg	ND	1000	1000	923	923	92	92	53-130	0	
Vinyl chloride	ug/kg	ND	500	500	535	546	107	109	61-148	2	
Xylene (Total)	ug/kg	ND	1500	1500	1530	1540	102	103	63-132	1	
1,2-Dichloroethane-d4 (S)	%						100	102	70-130		
4-Bromofluorobenzene (S)	%						95	96	69-134		
Toluene-d8 (S)	%						98	98	70-130		

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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
Pace Project No.: 92512978

QC Batch: 588543
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92512978001, 92512978002

SAMPLE DUPLICATE: 3109733

Parameter	Units	92512871001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.7	18.8	6	

SAMPLE DUPLICATE: 3109734

Parameter	Units	92512989007 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.3	13.0	10	

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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
Pace Project No.: 92512978

QC Batch: 1596542
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: 92512978001, 92512978002

METHOD BLANK: R3607018-1 Matrix: Solid
Associated Lab Samples: 92512978001, 92512978002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00100		12/23/20 15:23	

LABORATORY CONTROL SAMPLE: R3607018-2

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

SAMPLE DUPLICATE: R3607018-3

Parameter	Units	92512978002 Result	Dup Result	RPD	Qualifiers
Total Solids	%	91.4	90.6	0.849	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 2020-L1-2448
Pace Project No.: 92512978

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

IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448
Pace Project No.: 92512978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512978001	**MW-69 (44'-46')**	MADEPV	1597412	MADEP VPH	1597412
92512978002	**MW-64 (36'-38')**	MADEPV	1597412	MADEP VPH	1597412
92512978001	**MW-69 (44'-46')**	EPA 5035A/5030B	588605	EPA 8260D	588642
92512978002	**MW-64 (36'-38')**	EPA 5035A/5030B	588605	EPA 8260D	588642
92512978001	**MW-69 (44'-46')**	ASTM D2974-87	588543		
92512978002	**MW-64 (36'-38')**	ASTM D2974-87	588543		
92512978001	**MW-69 (44'-46')**	SM 2540 G	1596542	SM 2540G	1596542
92512978002	**MW-64 (36'-38')**	SM 2540 G	1596542	SM 2540G	1596542

WO# : 92512978

92512978

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ON... er or

Company: Apex Companies	Billing Information: → Same
Address: 5900 North Woods Bsmess Pkwy, Ste 0	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: CPC Huntersville Release
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): Kyle Cryder	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard TAT 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	MADEP VPH	VOCs by 8260	Lab Sample # / Comments
								6	6		
MW-69	SL	Grab	12-15-20	1400				6	X	X	001
MW-64 (36'-38')	SL	Grab	12-17-20	1600				6	X	X	002

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:

92512978
001
002

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 #: 2561472

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR9ZT064
Cooler 1 Temp Upon Receipt: 4.7 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.6 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	12-18-20/1739	LDH PACE ANL	12/18/20 1739
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#: 92512978**

PM: AMB Due Date: 12/28/20

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																						6							
2																						6							
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

January 05, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513380

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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: 2020-L1-2448 Incident
Pace Project No.: 92513380

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 ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92513380

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513380001	**PMW 67 36-37**	MADEP VPH	ACG	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	1	PAN
92513380002	**PMW-67 36-37**	MADEP VPH	ACG	6	PAN
		EPA 8260D	ACG	68	PAN
		SM 2540G	KBC	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-L1-2448 Incident
Pace Project No.: 92513380

Sample: PMW 67 36-37 **Lab ID: 92513380001** Collected: 12/21/20 14:35 Received: 12/22/20 13:30 Matrix: 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)	ND	mg/kg	6.21	1	12/21/20 14:35	01/01/21 14:24		
Aliphatic (C09-C12)	ND	mg/kg	6.21	1	12/21/20 14:35	01/01/21 14:24		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	6.21	1	12/21/20 14:35	01/01/21 14:24	TPHC9C10A	
Total VPH	ND	mg/kg	6.21	1	12/21/20 14:35	01/01/21 14:24	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.7	%	70.0-130	1	12/21/20 14:35	01/01/21 14:24	615-59-8FID	
2,5-Dibromotoluene (PID)	81.8	%	70.0-130	1	12/21/20 14:35	01/01/21 14:24	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.0621	1	12/21/20 14:35	12/31/20 13:04	67-64-1	
Acrylonitrile	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	107-13-1	
Benzene	ND	mg/kg	0.00124	1	12/21/20 14:35	12/31/20 13:04	71-43-2	
Bromobenzene	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	75-27-4	
Bromoform	ND	mg/kg	0.0310	1	12/21/20 14:35	12/31/20 13:04	75-25-2	
Bromomethane	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	56-23-5	
Chlorobenzene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	124-48-1	
Chloroethane	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	75-00-3	C3
Chloroform	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	67-66-3	
Chloromethane	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	74-87-3	C3
2-Chlorotoluene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0310	1	12/21/20 14:35	12/31/20 13:04	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	106-93-4	
Dibromomethane	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	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: 2020-L1-2448 Incident
Pace Project No.: 92513380

Sample: PMW 67 36-37 **Lab ID: 92513380001** Collected: 12/21/20 14:35 Received: 12/22/20 13:30 Matrix: 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	0.00310	1	12/21/20 14:35	12/31/20 13:04	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00124	1	12/21/20 14:35	12/31/20 13:04	108-20-3	C3
Ethylbenzene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0310	1	12/21/20 14:35	12/31/20 13:04	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.124	1	12/21/20 14:35	12/31/20 13:04	78-93-3	
Methylene Chloride	ND	mg/kg	0.0310	1	12/21/20 14:35	12/31/20 13:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0310	1	12/21/20 14:35	12/31/20 13:04	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00124	1	12/21/20 14:35	12/31/20 13:04	1634-04-4	
Naphthalene	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	103-65-1	
Styrene	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	127-18-4	
Toluene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	79-00-5	
Trichloroethene	ND	mg/kg	0.00124	1	12/21/20 14:35	12/31/20 13:04	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0155	1	12/21/20 14:35	12/31/20 13:04	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00621	1	12/21/20 14:35	12/31/20 13:04	108-67-8	
Vinyl chloride	ND	mg/kg	0.00310	1	12/21/20 14:35	12/31/20 13:04	75-01-4	C3
Xylene (Total)	ND	mg/kg	0.00807	1	12/21/20 14:35	12/31/20 13:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%	75.0-131	1	12/21/20 14:35	12/31/20 13:04	2037-26-5	
4-Bromofluorobenzene (S)	98.7	%	67.0-138	1	12/21/20 14:35	12/31/20 13:04	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130	1	12/21/20 14:35	12/31/20 13:04	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**90.1**	%		1	12/30/20 04:48	12/30/20 04:59		

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.: 92513380

Sample: PMW-67 36-37 **Lab ID: 92513380002** Collected: 12/21/20 14:27 Received: 12/22/20 13:30 Matrix: 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)	ND	mg/kg	6.28	1	12/21/20 14:27	01/01/21 14:57		
Aliphatic (C09-C12)	ND	mg/kg	6.28	1	12/21/20 14:27	01/01/21 14:57		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	6.28	1	12/21/20 14:27	01/01/21 14:57	TPHC9C10A	
Total VPH	ND	mg/kg	6.28	1	12/21/20 14:27	01/01/21 14:57	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.7	%	70.0-130	1	12/21/20 14:27	01/01/21 14:57	615-59-8FID	
2,5-Dibromotoluene (PID)	84.7	%	70.0-130	1	12/21/20 14:27	01/01/21 14:57	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.0628	1	12/21/20 14:27	12/31/20 13:23	67-64-1	
Acrylonitrile	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	107-13-1	
Benzene	ND	mg/kg	0.00126	1	12/21/20 14:27	12/31/20 13:23	71-43-2	
Bromobenzene	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	75-27-4	
Bromoform	ND	mg/kg	0.0314	1	12/21/20 14:27	12/31/20 13:23	75-25-2	
Bromomethane	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	56-23-5	
Chlorobenzene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	124-48-1	
Chloroethane	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	75-00-3	C3
Chloroform	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	67-66-3	
Chloromethane	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	74-87-3	C3
2-Chlorotoluene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0314	1	12/21/20 14:27	12/31/20 13:23	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	106-93-4	
Dibromomethane	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	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: 2020-L1-2448 Incident
Pace Project No.: 92513380

Sample: PMW-67 36-37 **Lab ID: 92513380002** Collected: 12/21/20 14:27 Received: 12/22/20 13:30 Matrix: 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	0.00314	1	12/21/20 14:27	12/31/20 13:23	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00126	1	12/21/20 14:27	12/31/20 13:23	108-20-3	C3
Ethylbenzene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0314	1	12/21/20 14:27	12/31/20 13:23	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.126	1	12/21/20 14:27	12/31/20 13:23	78-93-3	
Methylene Chloride	ND	mg/kg	0.0314	1	12/21/20 14:27	12/31/20 13:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0314	1	12/21/20 14:27	12/31/20 13:23	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00126	1	12/21/20 14:27	12/31/20 13:23	1634-04-4	
Naphthalene	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	91-20-3	
n-Propylbenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	103-65-1	
Styrene	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	76-13-1	
Tetrachloroethene	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	127-18-4	
Toluene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	87-61-6	C4
1,2,4-Trichlorobenzene	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	120-82-1	C4
1,1,1-Trichloroethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	79-00-5	
Trichloroethene	ND	mg/kg	0.00126	1	12/21/20 14:27	12/31/20 13:23	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0157	1	12/21/20 14:27	12/31/20 13:23	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00628	1	12/21/20 14:27	12/31/20 13:23	108-67-8	
Vinyl chloride	ND	mg/kg	0.00314	1	12/21/20 14:27	12/31/20 13:23	75-01-4	C3
Xylene (Total)	ND	mg/kg	0.00816	1	12/21/20 14:27	12/31/20 13:23	1330-20-7	
Surrogates								
Toluene-d8 (S)	99.6	%	75.0-131	1	12/21/20 14:27	12/31/20 13:23	2037-26-5	
4-Bromofluorobenzene (S)	93.1	%	67.0-138	1	12/21/20 14:27	12/31/20 13:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130	1	12/21/20 14:27	12/31/20 13:23	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**89.4**	%		1	12/30/20 04:48	12/30/20 04:59		

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.: 92513380

QC Batch: 1599877
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92513380001, 92513380002

METHOD BLANK: R3609089-3 Matrix: Solid
Associated Lab Samples: 92513380001, 92513380002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/01/21 12:25	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/01/21 12:25	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	01/01/21 12:25	
Total VPH	mg/kg	ND	5.00	01/01/21 12:25	
2,5-Dibromotoluene (FID)	%	87.8	70.0-130	01/01/21 12:25	
2,5-Dibromotoluene (PID)	%	82.2	70.0-130	01/01/21 12:25	

LABORATORY CONTROL SAMPLE & LCSD: R3609089-1 R3609089-2

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	60.8	60.2	101	100	70.0-130	0.992	25	
Aliphatic (C09-C12)	mg/kg	70.0	74.8	75.9	107	108	70.0-130	1.46	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	11.0	10.8	110	108	70.0-130	1.83	25	
Total VPH	mg/kg	140	147	147	105	105	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				94.7	96.2	70.0-130			
2,5-Dibromotoluene (PID)	%				91.5	93.1	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3609089-4 R3609089-5

Parameter	Units	L1300364-08 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	61.2	61.2	70.0	78.2	114	128	70.0-130	11.1	
Aliphatic (C09-C12)	mg/kg	ND	71.4	71.4	101	108	141	151	70.0-130	6.70	MH
Aromatic (C09-C10),Unadjusted	mg/kg	ND	10.2	10.2	13.8	15.3	135	150	70.0-130	10.3	MH
Total VPH	mg/kg	ND	143	143	185	201	129	141	70.0-130	8.29	MH
2,5-Dibromotoluene (FID)	%						99.0	100	70.0-130		
2,5-Dibromotoluene (PID)	%						92.3	94.9	70.0-130		

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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.: 92513380

QC Batch: 1599595
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92513380001, 92513380002

METHOD BLANK: R3609098-2 Matrix: Solid
Associated Lab Samples: 92513380001, 92513380002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	12/31/20 11:54	
Acrylonitrile	mg/kg	ND	0.0125	12/31/20 11:54	
Benzene	mg/kg	ND	0.00100	12/31/20 11:54	
Bromobenzene	mg/kg	ND	0.0125	12/31/20 11:54	
Bromodichloromethane	mg/kg	ND	0.00250	12/31/20 11:54	
Bromoform	mg/kg	ND	0.0250	12/31/20 11:54	
Bromomethane	mg/kg	ND	0.0125	12/31/20 11:54	
n-Butylbenzene	mg/kg	ND	0.0125	12/31/20 11:54	
sec-Butylbenzene	mg/kg	ND	0.0125	12/31/20 11:54	
tert-Butylbenzene	mg/kg	ND	0.00500	12/31/20 11:54	
Carbon tetrachloride	mg/kg	ND	0.00500	12/31/20 11:54	
Chlorobenzene	mg/kg	ND	0.00250	12/31/20 11:54	
Dibromochloromethane	mg/kg	ND	0.00250	12/31/20 11:54	
Chloroethane	mg/kg	ND	0.00500	12/31/20 11:54	
Chloroform	mg/kg	ND	0.00250	12/31/20 11:54	
Chloromethane	mg/kg	ND	0.0125	12/31/20 11:54	
2-Chlorotoluene	mg/kg	ND	0.00250	12/31/20 11:54	
4-Chlorotoluene	mg/kg	ND	0.00500	12/31/20 11:54	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	12/31/20 11:54	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	12/31/20 11:54	
Dibromomethane	mg/kg	ND	0.00500	12/31/20 11:54	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	12/31/20 11:54	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	12/31/20 11:54	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	12/31/20 11:54	
Dichlorodifluoromethane	mg/kg	ND	0.00250	12/31/20 11:54	
1,1-Dichloroethane	mg/kg	ND	0.00250	12/31/20 11:54	
1,2-Dichloroethane	mg/kg	ND	0.00250	12/31/20 11:54	
1,1-Dichloroethene	mg/kg	ND	0.00250	12/31/20 11:54	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	12/31/20 11:54	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	12/31/20 11:54	
1,2-Dichloropropane	mg/kg	ND	0.00500	12/31/20 11:54	
1,1-Dichloropropene	mg/kg	ND	0.00250	12/31/20 11:54	
1,3-Dichloropropane	mg/kg	ND	0.00500	12/31/20 11:54	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	12/31/20 11:54	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	12/31/20 11:54	
2,2-Dichloropropane	mg/kg	ND	0.00250	12/31/20 11:54	
Diisopropyl ether	mg/kg	ND	0.00100	12/31/20 11:54	
Ethylbenzene	mg/kg	ND	0.00250	12/31/20 11:54	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	12/31/20 11:54	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	12/31/20 11:54	

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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.: 92513380

METHOD BLANK: R3609098-2 Matrix: Solid
Associated Lab Samples: 92513380001, 92513380002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	ND	0.00500	12/31/20 11:54	
2-Butanone (MEK)	mg/kg	ND	0.100	12/31/20 11:54	
Methylene Chloride	mg/kg	ND	0.0250	12/31/20 11:54	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	12/31/20 11:54	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	12/31/20 11:54	
Naphthalene	mg/kg	ND	0.0125	12/31/20 11:54	
n-Propylbenzene	mg/kg	ND	0.00500	12/31/20 11:54	
Styrene	mg/kg	ND	0.0125	12/31/20 11:54	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	12/31/20 11:54	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	12/31/20 11:54	
Tetrachloroethene	mg/kg	ND	0.00250	12/31/20 11:54	
Toluene	mg/kg	ND	0.00500	12/31/20 11:54	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	12/31/20 11:54	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	12/31/20 11:54	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	12/31/20 11:54	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	12/31/20 11:54	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	12/31/20 11:54	
Trichloroethene	mg/kg	ND	0.00100	12/31/20 11:54	
Trichlorofluoromethane	mg/kg	ND	0.00250	12/31/20 11:54	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	12/31/20 11:54	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	12/31/20 11:54	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	12/31/20 11:54	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	12/31/20 11:54	
Vinyl chloride	mg/kg	ND	0.00250	12/31/20 11:54	
Xylene (Total)	mg/kg	ND	0.00650	12/31/20 11:54	
Toluene-d8 (S)	%	102	75.0-131	12/31/20 11:54	
4-Bromofluorobenzene (S)	%	94.7	67.0-138	12/31/20 11:54	
1,2-Dichloroethane-d4 (S)	%	104	70.0-130	12/31/20 11:54	

LABORATORY CONTROL SAMPLE: R3609098-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	0.593	94.9	10.0-160	
Acrylonitrile	mg/kg	0.625	0.493	78.9	45.0-153	
Benzene	mg/kg	0.125	0.128	102	70.0-123	
Bromobenzene	mg/kg	0.125	0.124	99.2	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.137	110	73.0-121	
Bromoform	mg/kg	0.125	0.125	100	64.0-132	
Bromomethane	mg/kg	0.125	0.134	107	56.0-147	
n-Butylbenzene	mg/kg	0.125	0.126	101	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.126	101	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.123	98.4	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.147	118	66.0-128	
Chlorobenzene	mg/kg	0.125	0.117	93.6	76.0-128	

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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.: 92513380

LABORATORY CONTROL SAMPLE: R3609098-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	mg/kg	0.125	0.117	93.6	74.0-127	
Chloroethane	mg/kg	0.125	0.0986	78.9	61.0-134	
Chloroform	mg/kg	0.125	0.144	115	72.0-123	
Chloromethane	mg/kg	0.125	0.0803	64.2	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.122	97.6	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.132	106	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.137	110	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.117	93.6	74.0-128	
Dibromomethane	mg/kg	0.125	0.148	118	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.117	93.6	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.123	98.4	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.119	95.2	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.134	107	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.119	95.2	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.116	92.8	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	0.130	104	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.131	105	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.108	86.4	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.140	112	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.127	102	80.0-125	
cis-1,3-Dichloropropene	mg/kg	0.125	0.140	112	76.0-127	
trans-1,3-Dichloropropene	mg/kg	0.125	0.128	102	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.155	124	59.0-135	
Diisopropyl ether	mg/kg	0.125	0.0933	74.6	60.0-136	
Ethylbenzene	mg/kg	0.125	0.117	93.6	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.130	104	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.121	96.8	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.124	99.2	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.540	86.4	30.0-160	
Methylene Chloride	mg/kg	0.125	0.138	110	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.486	77.8	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.134	107	66.0-132	
Naphthalene	mg/kg	0.125	0.123	98.4	59.0-130	
n-Propylbenzene	mg/kg	0.125	0.130	104	74.0-126	
Styrene	mg/kg	0.125	0.119	95.2	72.0-127	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.112	89.6	74.0-129	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.138	110	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.113	90.4	70.0-136	
Toluene	mg/kg	0.125	0.117	93.6	75.0-121	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.144	115	61.0-139	
1,2,3-Trichlorobenzene	mg/kg	0.125	0.111	88.8	59.0-139	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.120	96.0	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.154	123	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.114	91.2	78.0-123	
Trichloroethene	mg/kg	0.125	0.119	95.2	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.141	113	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-L1-2448 Incident
Pace Project No.: 92513380

LABORATORY CONTROL SAMPLE: R3609098-1

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	0.117	93.6	74.0-124	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.126	101	70.0-126	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.127	102	73.0-127	
Vinyl chloride	mg/kg	0.125	0.0918	73.4	63.0-134	
Xylene (Total)	mg/kg	0.375	0.346	92.3	72.0-127	
Toluene-d8 (S)	%			95.0	75.0-131	
4-Bromofluorobenzene (S)	%			96.3	67.0-138	
1,2-Dichloroethane-d4 (S)	%			110	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.: 92513380

QC Batch: 1598214
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: 92513380001, 92513380002

METHOD BLANK: R3608419-1 Matrix: Solid
Associated Lab Samples: 92513380001, 92513380002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		12/30/20 04:59	

LABORATORY CONTROL SAMPLE: R3608419-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.1	100	85.0-115	

SAMPLE DUPLICATE: R3608419-3

Parameter	Units	92513380001 Result	Dup Result	RPD	Qualifiers
Total Solids	%	90.1	90.1	0.0534	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513380

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.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513380

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513380001	**PMW 67 36-37**	MADEPV	1599877	MADEP VPH	1599877
92513380002	**PMW-67 36-37**	MADEPV	1599877	MADEP VPH	1599877
92513380001	**PMW 67 36-37**	5035A	1599595	EPA 8260D	1599595
92513380002	**PMW-67 36-37**	5035A	1599595	EPA 8260D	1599595
92513380001	**PMW 67 36-37**	SM 2540 G	1598214	SM 2540G	1598214
92513380002	**PMW-67 36-37**	SM 2540 G	1598214	SM 2540G	1598214

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO#: 92513380

92513380

Company: Apex Companies
Address: 5900 Northwoods Business Pkwy
Billing Information: → Same
Report To: Andrew Street
Email To: Andrew.Street@Apexcos.com
Copy To:
Site Collection Info/Address: CPL Huntersville Release
Customer Project Name/Number: 2020-L1-2448
State: NC / County/City: Huntersville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone:
Email:
Site/Facility ID #:
Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:
Collected By (signature):
Turnaround Date Required: Standard
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)

LAB USE ... Number or
Contain... 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	MADEP VPH	VOCs 8260	Lab Sample # / Comments
PMW 67 36-37	~~DW~~ SL	G	12/21	1435				3	X	X	92513380 001
PMW-67 36-37	SL	G	12/21	1427				3	X	X	002

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: None
Radchem sample(s) screened (<500 cpm): Y N (NA)
SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2561002
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:
[signature] / Apex	12/22/20 1230	Naomi [signature] / Apex	12-22-20 1230
Naomi [signature] / Apex	12-22-20 1330	[signature] PACE Hu[...]	12/22/20 1330

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

January 05, 2021

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

RE: Project: 2020-L1-2448
Pace Project No.: 92513387

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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 - 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
Pace Project No.: 92513387

Pace Analytical Services National

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

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
Pace Project No.: 92513387

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513387001	**MW-65 (25')**	MADEP VPH	ACG	6	PAN
		EPA 8260D	SAS	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KBC	1	PAN

PAN = Pace National - Mt. Juliet
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
Pace Project No.: 92513387

Sample: MW-65 (25') **Lab ID: 92513387001** Collected: 12/22/20 12:15 Received: 12/22/20 13:30 Matrix: 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)	ND	mg/kg	7.30	1.14	12/22/20 12:15	01/01/21 15:30		
Aliphatic (C09-C12)	ND	mg/kg	7.30	1.14	12/22/20 12:15	01/01/21 15:30		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	7.30	1.14	12/22/20 12:15	01/01/21 15:30	TPHC9C10A	
Total VPH	ND	mg/kg	7.30	1.14	12/22/20 12:15	01/01/21 15:30	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.2	%	70.0-130	1.14	12/22/20 12:15	01/01/21 15:30	615-59-8FID	
2,5-Dibromotoluene (PID)	84.0	%	70.0-130	1.14	12/22/20 12:15	01/01/21 15:30	615-59-8PID	
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	152	1	12/23/20 15:24	12/24/20 06:30	67-64-1	
Benzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	71-43-2	
Bromobenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	108-86-1	
Bromochloromethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	74-97-5	
Bromodichloromethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	75-27-4	IK
Bromoform	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	75-25-2	
Bromomethane	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	74-83-9	L1,v1
2-Butanone (MEK)	ND	ug/kg	152	1	12/23/20 15:24	12/24/20 06:30	78-93-3	
n-Butylbenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	98-06-6	L2,v2
Carbon tetrachloride	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	56-23-5	
Chlorobenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	108-90-7	
Chloroethane	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	75-00-3	
Chloroform	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	67-66-3	
Chloromethane	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	74-87-3	v2
2-Chlorotoluene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	96-12-8	
Dibromochloromethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	106-93-4	
Dibromomethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	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-L1-2448
Pace Project No.: 92513387

Sample: MW-65 (25') **Lab ID: 92513387001** Collected: 12/22/20 12:15 Received: 12/22/20 13:30 Matrix: 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
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
cis-1,3-Dichloropropene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	108-20-3	
Ethylbenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	87-68-3	
2-Hexanone	ND	ug/kg	75.9	1	12/23/20 15:24	12/24/20 06:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	99-87-6	
Methylene Chloride	ND	ug/kg	30.3	1	12/23/20 15:24	12/24/20 06:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	75.9	1	12/23/20 15:24	12/24/20 06:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	1634-04-4	
Naphthalene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	91-20-3	
n-Propylbenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	103-65-1	
Styrene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	79-34-5	
Tetrachloroethene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	127-18-4	
Toluene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	79-00-5	
Trichloroethene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	108-67-8	
Vinyl acetate	ND	ug/kg	75.9	1	12/23/20 15:24	12/24/20 06:30	108-05-4	
Vinyl chloride	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	75-01-4	
Xylene (Total)	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	1330-20-7	
m&p-Xylene	ND	ug/kg	15.2	1	12/23/20 15:24	12/24/20 06:30	179601-23-1	
o-Xylene	ND	ug/kg	7.6	1	12/23/20 15:24	12/24/20 06:30	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1	12/23/20 15:24	12/24/20 06:30	2037-26-5	
4-Bromofluorobenzene (S)	99	%	69-134	1	12/23/20 15:24	12/24/20 06:30	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1	12/23/20 15:24	12/24/20 06:30	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte							
Percent Moisture	**12.1**	%	0.10	1		12/22/20 16:41		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**87.0**	%		1	12/30/20 04:48	12/30/20 04:59		

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
Pace Project No.: 92513387

QC Batch: 1599877
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513387001

METHOD BLANK: R3609089-3 Matrix: Solid
Associated Lab Samples: 92513387001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/01/21 12:25	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/01/21 12:25	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	01/01/21 12:25	
Total VPH	mg/kg	ND	5.00	01/01/21 12:25	
2,5-Dibromotoluene (FID)	%	87.8	70.0-130	01/01/21 12:25	
2,5-Dibromotoluene (PID)	%	82.2	70.0-130	01/01/21 12:25	

LABORATORY CONTROL SAMPLE & LCSD: R3609089-1 R3609089-2

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	60.8	60.2	101	100	70.0-130	0.992	25	
Aliphatic (C09-C12)	mg/kg	70.0	74.8	75.9	107	108	70.0-130	1.46	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	11.0	10.8	110	108	70.0-130	1.83	25	
Total VPH	mg/kg	140	147	147	105	105	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				94.7	96.2	70.0-130			
2,5-Dibromotoluene (PID)	%				91.5	93.1	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92513387

QC Batch: 589182
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D 5035A 5030B
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513387001

METHOD BLANK: 3112375 Matrix: Solid
Associated Lab Samples: 92513387001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/20 00:03	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/24/20 00:03	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/24/20 00:03	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/24/20 00:03	
1,1-Dichloroethane	ug/kg	ND	5.0	12/24/20 00:03	
1,1-Dichloroethene	ug/kg	ND	5.0	12/24/20 00:03	
1,1-Dichloropropene	ug/kg	ND	5.0	12/24/20 00:03	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/24/20 00:03	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/24/20 00:03	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/24/20 00:03	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/24/20 00:03	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	12/24/20 00:03	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/24/20 00:03	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/24/20 00:03	
1,2-Dichloroethane	ug/kg	ND	5.0	12/24/20 00:03	
1,2-Dichloropropane	ug/kg	ND	5.0	12/24/20 00:03	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/24/20 00:03	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/24/20 00:03	
1,3-Dichloropropane	ug/kg	ND	5.0	12/24/20 00:03	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/24/20 00:03	
2,2-Dichloropropane	ug/kg	ND	5.0	12/24/20 00:03	
2-Butanone (MEK)	ug/kg	ND	100	12/24/20 00:03	
2-Chlorotoluene	ug/kg	ND	5.0	12/24/20 00:03	
2-Hexanone	ug/kg	ND	50.0	12/24/20 00:03	
4-Chlorotoluene	ug/kg	ND	5.0	12/24/20 00:03	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	12/24/20 00:03	
Acetone	ug/kg	ND	100	12/24/20 00:03	
Benzene	ug/kg	ND	5.0	12/24/20 00:03	
Bromobenzene	ug/kg	ND	5.0	12/24/20 00:03	
Bromochloromethane	ug/kg	ND	5.0	12/24/20 00:03	
Bromodichloromethane	ug/kg	ND	5.0	12/24/20 00:03	IK
Bromoform	ug/kg	ND	5.0	12/24/20 00:03	
Bromomethane	ug/kg	ND	10.0	12/24/20 00:03	v1
Carbon tetrachloride	ug/kg	ND	5.0	12/24/20 00:03	
Chlorobenzene	ug/kg	ND	5.0	12/24/20 00:03	
Chloroethane	ug/kg	ND	10.0	12/24/20 00:03	
Chloroform	ug/kg	ND	5.0	12/24/20 00:03	
Chloromethane	ug/kg	ND	10.0	12/24/20 00:03	v2
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/20 00:03	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/20 00:03	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92513387

METHOD BLANK: 3112375 Matrix: Solid
Associated Lab Samples: 92513387001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	12/24/20 00:03	
Dibromomethane	ug/kg	ND	5.0	12/24/20 00:03	
Dichlorodifluoromethane	ug/kg	ND	10.0	12/24/20 00:03	
Diisopropyl ether	ug/kg	ND	5.0	12/24/20 00:03	
Ethylbenzene	ug/kg	ND	5.0	12/24/20 00:03	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	12/24/20 00:03	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/24/20 00:03	
m&p-Xylene	ug/kg	ND	10.0	12/24/20 00:03	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/24/20 00:03	
Methylene Chloride	ug/kg	ND	20.0	12/24/20 00:03	
n-Butylbenzene	ug/kg	ND	5.0	12/24/20 00:03	
n-Propylbenzene	ug/kg	ND	5.0	12/24/20 00:03	
Naphthalene	ug/kg	ND	5.0	12/24/20 00:03	
o-Xylene	ug/kg	ND	5.0	12/24/20 00:03	
p-Isopropyltoluene	ug/kg	ND	5.0	12/24/20 00:03	
sec-Butylbenzene	ug/kg	ND	5.0	12/24/20 00:03	
Styrene	ug/kg	ND	5.0	12/24/20 00:03	
tert-Butylbenzene	ug/kg	ND	5.0	12/24/20 00:03	v2
Tetrachloroethene	ug/kg	ND	5.0	12/24/20 00:03	
Toluene	ug/kg	ND	5.0	12/24/20 00:03	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/24/20 00:03	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/24/20 00:03	
Trichloroethene	ug/kg	ND	5.0	12/24/20 00:03	
Trichlorofluoromethane	ug/kg	ND	5.0	12/24/20 00:03	
Vinyl acetate	ug/kg	ND	50.0	12/24/20 00:03	
Vinyl chloride	ug/kg	ND	10.0	12/24/20 00:03	
Xylene (Total)	ug/kg	ND	10.0	12/24/20 00:03	
1,2-Dichloroethane-d4 (S)	%	94	70-130	12/24/20 00:03	
4-Bromofluorobenzene (S)	%	97	69-134	12/24/20 00:03	
Toluene-d8 (S)	%	99	70-130	12/24/20 00:03	

LABORATORY CONTROL SAMPLE: 3112376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1080	87	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1150	92	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1110	89	70-130	
1,1,2-Trichloroethane	ug/kg	1250	1300	104	70-130	
1,1-Dichloroethane	ug/kg	1250	1080	86	70-130	
1,1-Dichloroethene	ug/kg	1250	1100	88	70-130	
1,1-Dichloropropene	ug/kg	1250	1030	83	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1190	95	65-130	
1,2,3-Trichloropropane	ug/kg	1250	1110	89	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1200	96	68-130	

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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
Pace Project No.: 92513387

LABORATORY CONTROL SAMPLE: 3112376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1250	1120	90	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1180	94	70-130	
1,2-Dibromoethane (EDB)	ug/kg	1250	1140	91	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1130	90	70-130	
1,2-Dichloroethane	ug/kg	1250	1180	94	63-130	
1,2-Dichloropropane	ug/kg	1250	1100	88	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1220	97	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1160	93	70-130	
1,3-Dichloropropane	ug/kg	1250	1150	92	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1140	92	70-130	
2,2-Dichloropropane	ug/kg	1250	1060	85	66-130	
2-Butanone (MEK)	ug/kg	2500	2380	95	70-130	
2-Chlorotoluene	ug/kg	1250	1100	88	70-130	
2-Hexanone	ug/kg	2500	2430	97	70-130	
4-Chlorotoluene	ug/kg	1250	1050	84	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2410	96	70-130	
Acetone	ug/kg	2500	2580	103	69-130	
Benzene	ug/kg	1250	1090	87	70-130	
Bromobenzene	ug/kg	1250	1160	93	70-130	
Bromochloromethane	ug/kg	1250	1250	100	70-130	
Bromodichloromethane	ug/kg	1250	1160	93	69-130	IK
Bromoform	ug/kg	1250	1130	90	70-130	
Bromomethane	ug/kg	1250	1720	137	52-130	L1,v1
Carbon tetrachloride	ug/kg	1250	1030	82	70-130	
Chlorobenzene	ug/kg	1250	1110	89	70-130	
Chloroethane	ug/kg	1250	1190	95	65-130	
Chloroform	ug/kg	1250	1050	84	70-130	
Chloromethane	ug/kg	1250	997	80	55-130	v3
cis-1,2-Dichloroethene	ug/kg	1250	1070	85	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1100	88	70-130	
Dibromochloromethane	ug/kg	1250	1130	91	70-130	
Dibromomethane	ug/kg	1250	1250	100	70-130	
Dichlorodifluoromethane	ug/kg	1250	1080	86	45-156	
Diisopropyl ether	ug/kg	1250	1010	81	70-130	
Ethylbenzene	ug/kg	1250	1230	98	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1070	86	66-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1110	89	70-130	
m&p-Xylene	ug/kg	2500	2110	84	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1080	86	70-130	
Methylene Chloride	ug/kg	1250	1180	94	65-130	
n-Butylbenzene	ug/kg	1250	1080	86	67-130	
n-Propylbenzene	ug/kg	1250	1070	86	70-130	
Naphthalene	ug/kg	1250	1280	103	70-130	
o-Xylene	ug/kg	1250	1070	85	70-130	
p-Isopropyltoluene	ug/kg	1250	1080	86	67-130	
sec-Butylbenzene	ug/kg	1250	1090	87	69-130	
Styrene	ug/kg	1250	1090	87	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92513387

LABORATORY CONTROL SAMPLE: 3112376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1250	799	64	67-130	L2,v3
Tetrachloroethene	ug/kg	1250	1100	88	70-130	
Toluene	ug/kg	1250	1070	86	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1070	86	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1080	86	68-130	
Trichloroethene	ug/kg	1250	1120	90	70-130	
Trichlorofluoromethane	ug/kg	1250	1070	86	70-130	
Vinyl acetate	ug/kg	2500	2170	87	70-130	
Vinyl chloride	ug/kg	1250	1050	84	61-130	
Xylene (Total)	ug/kg	3750	3180	85	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			95	69-134	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3112378

Parameter	Units	92513186002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	960	864	90	70-131	
1,1,1-Trichloroethane	ug/kg	ND	960	968	101	65-133	
1,1,2,2-Tetrachloroethane	ug/kg	ND	960	897	93	66-130	
1,1,2-Trichloroethane	ug/kg	ND	960	1040	109	66-133	
1,1-Dichloroethane	ug/kg	ND	960	884	92	65-130	
1,1-Dichloroethene	ug/kg	ND	960	814	85	10-158	
1,1-Dichloropropene	ug/kg	ND	960	879	92	68-133	
1,2,3-Trichlorobenzene	ug/kg	ND	960	904	94	27-138	
1,2,3-Trichloropropane	ug/kg	ND	960	862	90	67-130	
1,2,4-Trichlorobenzene	ug/kg	ND	960	945	98	51-134	
1,2,4-Trimethylbenzene	ug/kg	ND	960	880	92	63-136	
1,2-Dibromo-3-chloropropane	ug/kg	ND	960	827	86	32-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	960	915	95	70-130	
1,2-Dichlorobenzene	ug/kg	ND	960	929	97	69-130	
1,2-Dichloroethane	ug/kg	ND	960	982	102	59-130	
1,2-Dichloropropane	ug/kg	ND	960	910	95	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	960	973	101	65-137	
1,3-Dichlorobenzene	ug/kg	ND	960	967	101	70-130	
1,3-Dichloropropane	ug/kg	ND	960	969	101	70-130	
1,4-Dichlorobenzene	ug/kg	ND	960	914	95	68-130	
2,2-Dichloropropane	ug/kg	ND	960	760	79	32-130	
2-Butanone (MEK)	ug/kg	ND	1920	1640	85	10-136	
2-Chlorotoluene	ug/kg	ND	960	876	91	69-141	
2-Hexanone	ug/kg	ND	1920	1800	94	10-144	
4-Chlorotoluene	ug/kg	ND	960	847	88	70-132	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	1920	1820	95	25-143	
Acetone	ug/kg	ND	1920	1530	80	10-130	
Benzene	ug/kg	ND	960	905	94	67-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92513387

MATRIX SPIKE SAMPLE: 3112378

Parameter	Units	92513186002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	960	935	97	70-130	
Bromochloromethane	ug/kg	ND	960	1010	105	69-134	
Bromodichloromethane	ug/kg	ND	960	900	94	64-130	IK
Bromoform	ug/kg	ND	960	795	83	62-130	
Bromomethane	ug/kg	ND	960	848	88	20-176	v1
Carbon tetrachloride	ug/kg	ND	960	789	82	65-140	
Chlorobenzene	ug/kg	ND	960	938	98	70-130	
Chloroethane	ug/kg	ND	960	110	12	10-130	
Chloroform	ug/kg	ND	960	866	90	63-130	
Chloromethane	ug/kg	ND	960	966	101	58-130	v3
cis-1,2-Dichloroethene	ug/kg	ND	960	890	93	66-130	
cis-1,3-Dichloropropene	ug/kg	ND	960	860	90	67-130	
Dibromochloromethane	ug/kg	ND	960	846	88	67-130	
Dibromomethane	ug/kg	ND	960	966	101	63-131	
Dichlorodifluoromethane	ug/kg	ND	960	956	100	44-180	
Diisopropyl ether	ug/kg	ND	960	811	84	63-130	
Ethylbenzene	ug/kg	ND	960	1030	108	66-130	
Hexachloro-1,3-butadiene	ug/kg	ND	960	871	91	64-150	
Isopropylbenzene (Cumene)	ug/kg	ND	960	934	97	69-135	
m&p-Xylene	ug/kg	ND	1920	1760	92	60-133	
Methyl-tert-butyl ether	ug/kg	ND	960	866	90	65-130	
Methylene Chloride	ug/kg	ND	960	945	98	61-130	
n-Butylbenzene	ug/kg	ND	960	844	88	65-140	
n-Propylbenzene	ug/kg	ND	960	867	90	67-140	
Naphthalene	ug/kg	ND	960	996	104	15-145	
o-Xylene	ug/kg	ND	960	896	93	66-133	
p-Isopropyltoluene	ug/kg	ND	960	867	90	56-147	
sec-Butylbenzene	ug/kg	ND	960	885	92	65-139	
Styrene	ug/kg	ND	960	902	94	70-132	
tert-Butylbenzene	ug/kg	ND	960	644	67	62-135	v3
Tetrachloroethene	ug/kg	ND	960	894	93	70-135	
Toluene	ug/kg	ND	960	889	92	67-130	
trans-1,2-Dichloroethene	ug/kg	ND	960	870	91	69-130	
trans-1,3-Dichloropropene	ug/kg	ND	960	824	86	62-130	
Trichloroethene	ug/kg	ND	960	914	95	70-135	
Trichlorofluoromethane	ug/kg	ND	960	278	29	10-130	
Vinyl acetate	ug/kg	ND	1920	1660	87	53-130	
Vinyl chloride	ug/kg	ND	960	951	99	61-148	
Xylene (Total)	ug/kg	ND	2880	2660	92	63-132	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				99	69-134	
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: 2020-L1-2448
Pace Project No.: 92513387

SAMPLE DUPLICATE: 3112377

Parameter	Units	92513186001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		IK
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		v1
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		v2
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		

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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
Pace Project No.: 92513387

SAMPLE DUPLICATE: 3112377

Parameter	Units	92513186001 Result	Dup Result	RPD	Qualifiers
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		v2
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	93	96		
4-Bromofluorobenzene (S)	%	97	98		
Toluene-d8 (S)	%	99	98		

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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
Pace Project No.: 92513387

QC Batch: 588879
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513387001

SAMPLE DUPLICATE: 3111010

Parameter	Units	92511221001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	24.6	22.1	11	

SAMPLE DUPLICATE: 3111348

Parameter	Units	92513034001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.4	20.2	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
Pace Project No.: 92513387

QC Batch: 1598214
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: 92513387001

METHOD BLANK: R3608419-1 Matrix: Solid
Associated Lab Samples: 92513387001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	ND		12/30/20 04:59	

LABORATORY CONTROL SAMPLE: R3608419-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.1	100	85.0-115	

SAMPLE DUPLICATE: R3608419-3

Parameter	Units	L1300650-01 Result	Dup Result	RPD	Qualifiers
Total Solids	%	90.1	90.1	0.0534	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to 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
Pace Project No.: 92513387

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

IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448
Pace Project No.: 92513387

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513387001	**MW-65 (25')**	MADEPV	1599877	MADEP VPH	1599877
92513387001	**MW-65 (25')**	EPA 5035A/5030B	589182	EPA 8260D	589215
92513387001	**MW-65 (25')**	ASTM D2974-87	588879		
92513387001	**MW-65 (25')**	SM 2540 G	1598214	SM 2540G	1598214

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

WO# : 92513387

92513387

Company: Apex Companies	Billing Information:
Address: 5960 North Woods Blvd. Pkwy, Ste D	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: CPC Huntersville Release
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): Kyle Zigler	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard TAT 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	Container #	MADEP VPH	VOCs by 8260	Lab Sample # / Comments
MW-65 (25')	SL	Grab			12-22-20	1215		6	001	X	X	92513387

Container Preservative Types: (1) none, (2) HCl, (3) H2SO4, (4) NaOH, (5) Na2S2O3, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) Zinc Acetate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y (N) NA
Custody Signatures Present	(Y) N NA
Collector 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:
VS 12/22
~~92513386~~ 92513387

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: (Wet) Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y (N) N/A	Lab Sample Temperature Info:	
	Packing Material Used: None	Lab Tracking #: 2561007	Temp Blank Received: Y N (NA)	
	Radchem sample(s) screened (<500 cpm): Y N (NA)	Samples received via: FEDEX UPS (Client) Courier Pace Courier	Therm ID#: 9ZT064	
			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	12-22-20/1245	Naomi Apex	12-22-20/1245
Naomi Apex	12-22-20/1330		12/22/20 1330

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

January 06, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513891

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 28, 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 - 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

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

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513891

Pace Analytical Services National

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

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.: 92513891

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513891001	**MW-66 40'-42'**	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
92513891002	**MW-66 40'-42'**	MADEP VPH	ACG	6	PAN
		EPA 8260D	ADM	68	PAN
		SM 2540G	KDW	1	PAN
92513891003	**MW-68 30'-32'**	MADEP VPH	ACG	6	PAN
		EPA 8260D	CL	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KDW	1	PAN

PAN = Pace National - Mt. Juliet
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.: 92513891

Sample: MW-66 40'-42' **Lab ID: 92513891001** Collected: 12/22/20 14:11 Received: 12/28/20 16:53 Matrix: 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)	ND	mg/kg	5.83	1	12/22/20 14:11	01/01/21 16:03		
Aliphatic (C09-C12)	ND	mg/kg	5.83	1	12/22/20 14:11	01/01/21 16:03		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	5.83	1	12/22/20 14:11	01/01/21 16:03	TPHC9C10A	
Total VPH	ND	mg/kg	5.83	1	12/22/20 14:11	01/01/21 16:03	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.2	%	70.0-130	1	12/22/20 14:11	01/01/21 16:03	615-59-8FID	
2,5-Dibromotoluene (PID)	88.1	%	70.0-130	1	12/22/20 14:11	01/01/21 16:03	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.0591	1.02	12/22/20 14:11	01/04/21 17:29	67-64-1	
Acrylonitrile	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	107-13-1	
Benzene	ND	mg/kg	0.00118	1.02	12/22/20 14:11	01/04/21 17:29	71-43-2	
Bromobenzene	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	75-27-4	
Bromoform	ND	mg/kg	0.0296	1.02	12/22/20 14:11	01/04/21 17:29	75-25-2	
Bromomethane	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	56-23-5	
Chlorobenzene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	124-48-1	
Chloroethane	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	75-00-3	
Chloroform	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	67-66-3	
Chloromethane	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0296	1.02	12/22/20 14:11	01/04/21 17:29	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	106-93-4	
Dibromomethane	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	75-71-8	C3
1,1-Dichloroethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	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: 2020-L1-2448 Incident
Pace Project No.: 92513891

Sample: MW-66 40'-42' **Lab ID: 92513891001** Collected: 12/22/20 14:11 Received: 12/28/20 16:53 Matrix: 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	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00118	1.02	12/22/20 14:11	01/04/21 17:29	108-20-3	
Ethylbenzene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0296	1.02	12/22/20 14:11	01/04/21 17:29	87-68-3	C3
Isopropylbenzene (Cumene)	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.118	1.02	12/22/20 14:11	01/04/21 17:29	78-93-3	
Methylene Chloride	ND	mg/kg	0.0296	1.02	12/22/20 14:11	01/04/21 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0296	1.02	12/22/20 14:11	01/04/21 17:29	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00118	1.02	12/22/20 14:11	01/04/21 17:29	1634-04-4	
Naphthalene	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	91-20-3	C3
n-Propylbenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	103-65-1	
Styrene	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	76-13-1	C3
Tetrachloroethene	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	127-18-4	
Toluene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	87-61-6	C3
1,2,4-Trichlorobenzene	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	120-82-1	C3
1,1,1-Trichloroethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	79-00-5	
Trichloroethene	ND	mg/kg	0.00118	1.02	12/22/20 14:11	01/04/21 17:29	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0148	1.02	12/22/20 14:11	01/04/21 17:29	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00591	1.02	12/22/20 14:11	01/04/21 17:29	108-67-8	
Vinyl chloride	ND	mg/kg	0.00296	1.02	12/22/20 14:11	01/04/21 17:29	75-01-4	
Xylene (Total)	ND	mg/kg	0.00768	1.02	12/22/20 14:11	01/04/21 17:29	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	75.0-131	1.02	12/22/20 14:11	01/04/21 17:29	2037-26-5	
4-Bromofluorobenzene (S)	95.8	%	67.0-138	1.02	12/22/20 14:11	01/04/21 17:29	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130	1.02	12/22/20 14:11	01/04/21 17:29	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**92.6**	%		1	01/05/21 12:55	01/05/21 13:05		

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.: 92513891

Sample: MW-66 40'-42' **Lab ID: 92513891002** Collected: 12/22/20 14:15 Received: 12/28/20 16:53 Matrix: 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)	ND	mg/kg	7.96	1.41	12/22/20 14:15	01/01/21 16:36		
Aliphatic (C09-C12)	ND	mg/kg	7.96	1.41	12/22/20 14:15	01/01/21 16:36		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	7.96	1.41	12/22/20 14:15	01/01/21 16:36	TPHC9C10A	
Total VPH	ND	mg/kg	7.96	1.41	12/22/20 14:15	01/01/21 16:36	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.6	%	70.0-130	1.41	12/22/20 14:15	01/01/21 16:36	615-59-8FID	
2,5-Dibromotoluene (PID)	89.3	%	70.0-130	1.41	12/22/20 14:15	01/01/21 16:36	615-59-8PID	
VOA (GC/MS) 8260D	Analytical Method: EPA 8260D Preparation Method: 5035A Pace National - Mt. Juliet							
Acetone	ND	mg/kg	0.0577	1	12/22/20 14:15	01/04/21 17:49	67-64-1	
Acrylonitrile	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	107-13-1	
Benzene	ND	mg/kg	0.00115	1	12/22/20 14:15	01/04/21 17:49	71-43-2	
Bromobenzene	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	108-86-1	
Bromodichloromethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	75-27-4	
Bromoform	ND	mg/kg	0.0288	1	12/22/20 14:15	01/04/21 17:49	75-25-2	
Bromomethane	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	74-83-9	
n-Butylbenzene	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	56-23-5	
Chlorobenzene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	108-90-7	
Dibromochloromethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	124-48-1	
Chloroethane	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	75-00-3	
Chloroform	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	67-66-3	
Chloromethane	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0288	1	12/22/20 14:15	01/04/21 17:49	96-12-8	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	106-93-4	
Dibromomethane	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	75-71-8	C3
1,1-Dichloroethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	156-60-5	
1,2-Dichloropropane	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	78-87-5	
1,1-Dichloropropene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	563-58-6	
1,3-Dichloropropane	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	142-28-9	
cis-1,3-Dichloropropene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	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: 2020-L1-2448 Incident
Pace Project No.: 92513891

Sample: MW-66 40'-42' **Lab ID: 92513891002** Collected: 12/22/20 14:15 Received: 12/28/20 16:53 Matrix: 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	0.00288	1	12/22/20 14:15	01/04/21 17:49	594-20-7	
Diisopropyl ether	ND	mg/kg	0.00115	1	12/22/20 14:15	01/04/21 17:49	108-20-3	
Ethylbenzene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.0288	1	12/22/20 14:15	01/04/21 17:49	87-68-3	C3
Isopropylbenzene (Cumene)	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	99-87-6	
2-Butanone (MEK)	ND	mg/kg	0.115	1	12/22/20 14:15	01/04/21 17:49	78-93-3	
Methylene Chloride	ND	mg/kg	0.0288	1	12/22/20 14:15	01/04/21 17:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.0288	1	12/22/20 14:15	01/04/21 17:49	108-10-1	
Methyl-tert-butyl ether	ND	mg/kg	0.00115	1	12/22/20 14:15	01/04/21 17:49	1634-04-4	
Naphthalene	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	91-20-3	C3
n-Propylbenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	103-65-1	
Styrene	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	79-34-5	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	76-13-1	C3
Tetrachloroethene	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	127-18-4	
Toluene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	87-61-6	C3
1,2,4-Trichlorobenzene	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	120-82-1	C3
1,1,1-Trichloroethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	79-00-5	
Trichloroethene	ND	mg/kg	0.00115	1	12/22/20 14:15	01/04/21 17:49	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.0144	1	12/22/20 14:15	01/04/21 17:49	96-18-4	
1,2,4-Trimethylbenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	95-63-6	
1,2,3-Trimethylbenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	526-73-8	
1,3,5-Trimethylbenzene	ND	mg/kg	0.00577	1	12/22/20 14:15	01/04/21 17:49	108-67-8	
Vinyl chloride	ND	mg/kg	0.00288	1	12/22/20 14:15	01/04/21 17:49	75-01-4	
Xylene (Total)	ND	mg/kg	0.00750	1	12/22/20 14:15	01/04/21 17:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	75.0-131	1	12/22/20 14:15	01/04/21 17:49	2037-26-5	
4-Bromofluorobenzene (S)	94.8	%	67.0-138	1	12/22/20 14:15	01/04/21 17:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130	1	12/22/20 14:15	01/04/21 17:49	17060-07-0	
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**93.0**	%		1	01/05/21 12:55	01/05/21 13:05		

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.: 92513891

Sample: MW-68 30'-32' **Lab ID: 92513891003** Collected: 12/23/20 12:00 Received: 12/28/20 16:53 Matrix: 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)	ND	mg/kg	7.93	1.06	12/23/20 12:00	01/01/21 17:09		
Aliphatic (C09-C12)	ND	mg/kg	7.93	1.06	12/23/20 12:00	01/01/21 17:09		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	7.93	1.06	12/23/20 12:00	01/01/21 17:09	TPHC9C10A	
Total VPH	ND	mg/kg	7.93	1.06	12/23/20 12:00	01/01/21 17:09	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.7	%	70.0-130	1.06	12/23/20 12:00	01/01/21 17:09	615-59-8FID	
2,5-Dibromotoluene (PID)	89.4	%	70.0-130	1.06	12/23/20 12:00	01/01/21 17:09	615-59-8PID	
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	247	1	12/29/20 14:25	12/29/20 17:53	67-64-1	
Benzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	71-43-2	
Bromobenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	108-86-1	
Bromochloromethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	74-97-5	
Bromodichloromethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	75-27-4	IK
Bromoform	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	75-25-2	
Bromomethane	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	74-83-9	L1,v1
2-Butanone (MEK)	ND	ug/kg	247	1	12/29/20 14:25	12/29/20 17:53	78-93-3	
n-Butylbenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	98-06-6	L2,v2
Carbon tetrachloride	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	56-23-5	
Chlorobenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	108-90-7	
Chloroethane	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	75-00-3	
Chloroform	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	67-66-3	
Chloromethane	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	96-12-8	v2
Dibromochloromethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	106-93-4	
Dibromomethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	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-L1-2448 Incident
Pace Project No.: 92513891

Sample: MW-68 30'-32' **Lab ID: 92513891003** Collected: 12/23/20 12:00 Received: 12/28/20 16:53 Matrix: 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
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
cis-1,3-Dichloropropene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	108-20-3	
Ethylbenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	87-68-3	
2-Hexanone	ND	ug/kg	124	1	12/29/20 14:25	12/29/20 17:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	99-87-6	
Methylene Chloride	ND	ug/kg	49.4	1	12/29/20 14:25	12/29/20 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	124	1	12/29/20 14:25	12/29/20 17:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	1634-04-4	
Naphthalene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	91-20-3	
n-Propylbenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	103-65-1	
Styrene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	79-34-5	
Tetrachloroethene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	127-18-4	
Toluene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	79-00-5	
Trichloroethene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	108-67-8	
Vinyl acetate	ND	ug/kg	124	1	12/29/20 14:25	12/29/20 17:53	108-05-4	
Vinyl chloride	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	75-01-4	
Xylene (Total)	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	1330-20-7	
m&p-Xylene	ND	ug/kg	24.7	1	12/29/20 14:25	12/29/20 17:53	179601-23-1	
o-Xylene	ND	ug/kg	12.4	1	12/29/20 14:25	12/29/20 17:53	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1	12/29/20 14:25	12/29/20 17:53	2037-26-5	
4-Bromofluorobenzene (S)	98	%	69-134	1	12/29/20 14:25	12/29/20 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1	12/29/20 14:25	12/29/20 17:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte							
Percent Moisture	**19.7**	%	0.10	1		12/29/20 15:54		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**79.7**	%		1	01/05/21 12:55	01/05/21 13:05		

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.: 92513891

QC Batch: 1599877
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92513891001, 92513891002, 92513891003

METHOD BLANK: R3609089-3 Matrix: Solid
Associated Lab Samples: 92513891001, 92513891002, 92513891003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/01/21 12:25	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/01/21 12:25	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	01/01/21 12:25	
Total VPH	mg/kg	ND	5.00	01/01/21 12:25	
2,5-Dibromotoluene (FID)	%	87.8	70.0-130	01/01/21 12:25	
2,5-Dibromotoluene (PID)	%	82.2	70.0-130	01/01/21 12:25	

LABORATORY CONTROL SAMPLE & LCSD: R3609089-1 R3609089-2

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	60.8	60.2	101	100	70.0-130	0.992	25	
Aliphatic (C09-C12)	mg/kg	70.0	74.8	75.9	107	108	70.0-130	1.46	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	11.0	10.8	110	108	70.0-130	1.83	25	
Total VPH	mg/kg	140	147	147	105	105	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				94.7	96.2	70.0-130			
2,5-Dibromotoluene (PID)	%				91.5	93.1	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3609089-4 R3609089-5

Parameter	Units	L1300364-08 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	61.2	61.2	70.0	78.2	114	128	70.0-130	11.1	
Aliphatic (C09-C12)	mg/kg	ND	71.4	71.4	101	108	141	151	70.0-130	6.70	MH
Aromatic (C09-C10),Unadjusted	mg/kg	ND	10.2	10.2	13.8	15.3	135	150	70.0-130	10.3	MH
Total VPH	mg/kg	ND	143	143	185	201	129	141	70.0-130	8.29	MH
2,5-Dibromotoluene (FID)	%						99.0	100	70.0-130		
2,5-Dibromotoluene (PID)	%						92.3	94.9	70.0-130		

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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.: 92513891

QC Batch: 1600126
QC Batch Method: 5035A
Analysis Method: EPA 8260D
Analysis Description: VOA (GC/MS) 8260D
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513891001, 92513891002

METHOD BLANK: R3609665-2 Matrix: Solid

Associated Lab Samples: 92513891001, 92513891002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	mg/kg	ND	0.0500	01/04/21 15:32	
Acrylonitrile	mg/kg	ND	0.0125	01/04/21 15:32	
Benzene	mg/kg	ND	0.00100	01/04/21 15:32	
Bromobenzene	mg/kg	ND	0.0125	01/04/21 15:32	
Bromodichloromethane	mg/kg	ND	0.00250	01/04/21 15:32	
Bromoform	mg/kg	ND	0.0250	01/04/21 15:32	
Bromomethane	mg/kg	ND	0.0125	01/04/21 15:32	
n-Butylbenzene	mg/kg	ND	0.0125	01/04/21 15:32	
sec-Butylbenzene	mg/kg	ND	0.0125	01/04/21 15:32	
tert-Butylbenzene	mg/kg	ND	0.00500	01/04/21 15:32	
Carbon tetrachloride	mg/kg	ND	0.00500	01/04/21 15:32	
Chlorobenzene	mg/kg	ND	0.00250	01/04/21 15:32	
Dibromochloromethane	mg/kg	ND	0.00250	01/04/21 15:32	
Chloroethane	mg/kg	ND	0.00500	01/04/21 15:32	
Chloroform	mg/kg	ND	0.00250	01/04/21 15:32	
Chloromethane	mg/kg	ND	0.0125	01/04/21 15:32	
2-Chlorotoluene	mg/kg	ND	0.00250	01/04/21 15:32	
4-Chlorotoluene	mg/kg	ND	0.00500	01/04/21 15:32	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.0250	01/04/21 15:32	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.00250	01/04/21 15:32	
Dibromomethane	mg/kg	ND	0.00500	01/04/21 15:32	
1,2-Dichlorobenzene	mg/kg	ND	0.00500	01/04/21 15:32	
1,3-Dichlorobenzene	mg/kg	ND	0.00500	01/04/21 15:32	
1,4-Dichlorobenzene	mg/kg	ND	0.00500	01/04/21 15:32	
Dichlorodifluoromethane	mg/kg	ND	0.00250	01/04/21 15:32	
1,1-Dichloroethane	mg/kg	ND	0.00250	01/04/21 15:32	
1,2-Dichloroethane	mg/kg	ND	0.00250	01/04/21 15:32	
1,1-Dichloroethene	mg/kg	ND	0.00250	01/04/21 15:32	
cis-1,2-Dichloroethene	mg/kg	ND	0.00250	01/04/21 15:32	
trans-1,2-Dichloroethene	mg/kg	ND	0.00500	01/04/21 15:32	
1,2-Dichloropropane	mg/kg	ND	0.00500	01/04/21 15:32	
1,1-Dichloropropene	mg/kg	ND	0.00250	01/04/21 15:32	
1,3-Dichloropropane	mg/kg	ND	0.00500	01/04/21 15:32	
cis-1,3-Dichloropropene	mg/kg	ND	0.00250	01/04/21 15:32	
trans-1,3-Dichloropropene	mg/kg	ND	0.00500	01/04/21 15:32	
2,2-Dichloropropane	mg/kg	ND	0.00250	01/04/21 15:32	
Diisopropyl ether	mg/kg	ND	0.00100	01/04/21 15:32	
Ethylbenzene	mg/kg	ND	0.00250	01/04/21 15:32	
Hexachloro-1,3-butadiene	mg/kg	ND	0.0250	01/04/21 15:32	
Isopropylbenzene (Cumene)	mg/kg	ND	0.00250	01/04/21 15:32	

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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.: 92513891

METHOD BLANK: R3609665-2 Matrix: Solid
Associated Lab Samples: 92513891001, 92513891002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	mg/kg	ND	0.00500	01/04/21 15:32	
2-Butanone (MEK)	mg/kg	ND	0.100	01/04/21 15:32	
Methylene Chloride	mg/kg	ND	0.0250	01/04/21 15:32	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.0250	01/04/21 15:32	
Methyl-tert-butyl ether	mg/kg	ND	0.00100	01/04/21 15:32	
Naphthalene	mg/kg	ND	0.0125	01/04/21 15:32	
n-Propylbenzene	mg/kg	ND	0.00500	01/04/21 15:32	
Styrene	mg/kg	ND	0.0125	01/04/21 15:32	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.00250	01/04/21 15:32	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.00250	01/04/21 15:32	
Tetrachloroethene	mg/kg	ND	0.00250	01/04/21 15:32	
Toluene	mg/kg	ND	0.00500	01/04/21 15:32	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.00250	01/04/21 15:32	
1,2,3-Trichlorobenzene	mg/kg	ND	0.0125	01/04/21 15:32	
1,2,4-Trichlorobenzene	mg/kg	ND	0.0125	01/04/21 15:32	
1,1,1-Trichloroethane	mg/kg	ND	0.00250	01/04/21 15:32	
1,1,2-Trichloroethane	mg/kg	ND	0.00250	01/04/21 15:32	
Trichloroethene	mg/kg	ND	0.00100	01/04/21 15:32	
Trichlorofluoromethane	mg/kg	ND	0.00250	01/04/21 15:32	
1,2,3-Trichloropropane	mg/kg	ND	0.0125	01/04/21 15:32	
1,2,3-Trimethylbenzene	mg/kg	ND	0.00500	01/04/21 15:32	
1,2,4-Trimethylbenzene	mg/kg	ND	0.00500	01/04/21 15:32	
1,3,5-Trimethylbenzene	mg/kg	ND	0.00500	01/04/21 15:32	
Vinyl chloride	mg/kg	ND	0.00250	01/04/21 15:32	
Xylene (Total)	mg/kg	ND	0.00650	01/04/21 15:32	
Toluene-d8 (S)	%	102	75.0-131	01/04/21 15:32	
4-Bromofluorobenzene (S)	%	95.4	67.0-138	01/04/21 15:32	
1,2-Dichloroethane-d4 (S)	%	102	70.0-130	01/04/21 15:32	

LABORATORY CONTROL SAMPLE: R3609665-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	mg/kg	0.625	0.736	118	10.0-160	
Acrylonitrile	mg/kg	0.625	0.567	90.7	45.0-153	
Benzene	mg/kg	0.125	0.125	100	70.0-123	
Bromobenzene	mg/kg	0.125	0.126	101	73.0-121	
Bromodichloromethane	mg/kg	0.125	0.120	96.0	73.0-121	
Bromoform	mg/kg	0.125	0.109	87.2	64.0-132	
Bromomethane	mg/kg	0.125	0.119	95.2	56.0-147	
n-Butylbenzene	mg/kg	0.125	0.110	88.0	68.0-135	
sec-Butylbenzene	mg/kg	0.125	0.116	92.8	74.0-130	
tert-Butylbenzene	mg/kg	0.125	0.122	97.6	75.0-127	
Carbon tetrachloride	mg/kg	0.125	0.105	84.0	66.0-128	
Chlorobenzene	mg/kg	0.125	0.124	99.2	76.0-128	

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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.: 92513891

LABORATORY CONTROL SAMPLE: R3609665-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	mg/kg	0.125	0.118	94.4	74.0-127	
Chloroethane	mg/kg	0.125	0.124	99.2	61.0-134	
Chloroform	mg/kg	0.125	0.130	104	72.0-123	
Chloromethane	mg/kg	0.125	0.119	95.2	51.0-138	
2-Chlorotoluene	mg/kg	0.125	0.111	88.8	75.0-124	
4-Chlorotoluene	mg/kg	0.125	0.128	102	75.0-124	
1,2-Dibromo-3-chloropropane	mg/kg	0.125	0.105	84.0	59.0-130	
1,2-Dibromoethane (EDB)	mg/kg	0.125	0.114	91.2	74.0-128	
Dibromomethane	mg/kg	0.125	0.134	107	75.0-122	
1,2-Dichlorobenzene	mg/kg	0.125	0.111	88.8	76.0-124	
1,3-Dichlorobenzene	mg/kg	0.125	0.121	96.8	76.0-125	
1,4-Dichlorobenzene	mg/kg	0.125	0.123	98.4	77.0-121	
Dichlorodifluoromethane	mg/kg	0.125	0.0785	62.8	43.0-156	
1,1-Dichloroethane	mg/kg	0.125	0.123	98.4	70.0-127	
1,2-Dichloroethane	mg/kg	0.125	0.139	111	65.0-131	
1,1-Dichloroethene	mg/kg	0.125	0.134	107	65.0-131	
cis-1,2-Dichloroethene	mg/kg	0.125	0.124	99.2	73.0-125	
trans-1,2-Dichloroethene	mg/kg	0.125	0.125	100	71.0-125	
1,2-Dichloropropane	mg/kg	0.125	0.131	105	74.0-125	
1,1-Dichloropropene	mg/kg	0.125	0.126	101	73.0-125	
1,3-Dichloropropane	mg/kg	0.125	0.116	92.8	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	0.114	91.2	73.0-127	
2,2-Dichloropropane	mg/kg	0.125	0.127	102	59.0-135	
Diisopropyl ether	mg/kg	0.125	0.114	91.2	60.0-136	
Ethylbenzene	mg/kg	0.125	0.118	94.4	74.0-126	
Hexachloro-1,3-butadiene	mg/kg	0.125	0.0840	67.2	57.0-150	
Isopropylbenzene (Cumene)	mg/kg	0.125	0.119	95.2	72.0-127	
p-Isopropyltoluene	mg/kg	0.125	0.111	88.8	72.0-133	
2-Butanone (MEK)	mg/kg	0.625	0.690	110	30.0-160	
Methylene Chloride	mg/kg	0.125	0.125	100	68.0-123	
4-Methyl-2-pentanone (MIBK)	mg/kg	0.625	0.607	97.1	56.0-143	
Methyl-tert-butyl ether	mg/kg	0.125	0.114	91.2	66.0-132	
Naphthalene	mg/kg	0.125	0.0949	75.9	59.0-130	
n-Propylbenzene	mg/kg	0.125	0.129	103	74.0-126	
Styrene	mg/kg	0.125	0.116	92.8	72.0-127	
1,1,1,2-Tetrachloroethane	mg/kg	0.125	0.111	88.8	74.0-129	
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.119	95.2	68.0-128	
Tetrachloroethene	mg/kg	0.125	0.130	104	70.0-136	
Toluene	mg/kg	0.125	0.124	99.2	75.0-121	
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.0964	77.1	61.0-139	
1,2,3-Trichlorobenzene	mg/kg	0.125	0.0755	60.4	59.0-139	
1,2,4-Trichlorobenzene	mg/kg	0.125	0.0813	65.0	62.0-137	
1,1,1-Trichloroethane	mg/kg	0.125	0.122	97.6	69.0-126	
1,1,2-Trichloroethane	mg/kg	0.125	0.120	96.0	78.0-123	
Trichloroethene	mg/kg	0.125	0.136	109	76.0-126	
Trichlorofluoromethane	mg/kg	0.125	0.101	80.8	61.0-142	

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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.: 92513891

LABORATORY CONTROL SAMPLE: R3609665-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	mg/kg	0.125	0.130	104	67.0-129	
1,2,3-Trimethylbenzene	mg/kg	0.125	0.108	86.4	74.0-124	
1,2,4-Trimethylbenzene	mg/kg	0.125	0.120	96.0	70.0-126	
1,3,5-Trimethylbenzene	mg/kg	0.125	0.123	98.4	73.0-127	
Vinyl chloride	mg/kg	0.125	0.113	90.4	63.0-134	
Xylene (Total)	mg/kg	0.375	0.350	93.3	72.0-127	
Toluene-d8 (S)	%			101	75.0-131	
4-Bromofluorobenzene (S)	%			95.4	67.0-138	
1,2-Dichloroethane-d4 (S)	%			107	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3609665-3 R3609665-4

Parameter	Units	L1300744-07 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Acetone	mg/kg	ND	0.625	0.625	0.419	0.503	67.0	80.5	10.0-160	18.2	
Acrylonitrile	mg/kg	ND	0.625	0.625	0.607	0.531	97.1	85.0	10.0-160	13.4	
Benzene	mg/kg	ND	0.125	0.125	0.123	0.0794	98.4	63.5	10.0-149	43.1	R1
Bromobenzene	mg/kg	ND	0.125	0.125	0.126	0.100	101	80.0	10.0-156	23.0	
Bromodichloromethane	mg/kg	ND	0.125	0.125	0.113	0.0945	90.4	75.6	10.0-143	17.8	
Bromoform	mg/kg	ND	0.125	0.125	0.101	0.107	80.8	85.6	10.0-146	5.77	
Bromomethane	mg/kg	ND	0.125	0.125	0.107	0.0582	85.6	46.6	10.0-149	59.1	R1
n-Butylbenzene	mg/kg	ND	0.125	0.125	0.107	0.0672	85.6	53.8	10.0-160	45.7	R1
sec-Butylbenzene	mg/kg	ND	0.125	0.125	0.119	0.0698	95.2	55.8	10.0-159	52.1	R1
tert-Butylbenzene	mg/kg	ND	0.125	0.125	0.124	0.0737	99.2	59.0	10.0-156	50.9	R1
Carbon tetrachloride	mg/kg	ND	0.125	0.125	0.117	0.0552	93.6	44.2	10.0-145	71.8	R1
Chlorobenzene	mg/kg	ND	0.125	0.125	0.124	0.0905	99.2	72.4	10.0-152	31.2	
Dibromochloromethane	mg/kg	ND	0.125	0.125	0.112	0.106	89.6	84.8	10.0-146	5.50	
Chloroethane	mg/kg	ND	0.125	0.125	0.114	0.0469	91.2	37.5	10.0-146	83.4	R1
Chloroform	mg/kg	ND	0.125	0.125	0.129	0.0870	103	69.6	10.0-146	38.9	R1
Chloromethane	mg/kg	ND	0.125	0.125	0.117	0.0651	93.6	52.1	10.0-159	57.0	R1
2-Chlorotoluene	mg/kg	ND	0.125	0.125	0.112	0.0837	89.6	67.0	10.0-159	28.9	
4-Chlorotoluene	mg/kg	ND	0.125	0.125	0.125	0.0889	100	71.1	10.0-155	33.8	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.125	0.125	0.0903	0.104	72.2	83.2	10.0-151	14.1	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.125	0.125	0.112	0.114	89.6	91.2	10.0-148	1.77	
Dibromomethane	mg/kg	ND	0.125	0.125	0.128	0.110	102	88.0	10.0-147	15.1	
1,2-Dichlorobenzene	mg/kg	ND	0.125	0.125	0.111	0.0958	88.8	76.6	10.0-155	14.7	
1,3-Dichlorobenzene	mg/kg	ND	0.125	0.125	0.120	0.0929	96.0	74.3	10.0-153	25.5	
1,4-Dichlorobenzene	mg/kg	ND	0.125	0.125	0.119	0.0972	95.2	77.8	10.0-151	20.2	
Dichlorodifluoromethane	mg/kg	ND	0.125	0.125	0.104	0.0415	83.2	33.2	10.0-160	85.9	R1
1,1-Dichloroethane	mg/kg	ND	0.125	0.125	0.128	0.0801	102	64.1	10.0-147	46.0	R1
1,2-Dichloroethane	mg/kg	ND	0.125	0.125	0.131	0.123	105	98.4	10.0-148	6.30	
1,1-Dichloroethene	mg/kg	ND	0.125	0.125	0.146	0.0723	117	57.8	10.0-155	67.5	R1
cis-1,2-Dichloroethene	mg/kg	ND	0.125	0.125	0.134	0.0919	107	73.5	10.0-149	37.3	R1
trans-1,2-Dichloroethene	mg/kg	ND	0.125	0.125	0.131	0.0758	105	60.6	10.0-150	53.4	R1
1,2-Dichloropropane	mg/kg	ND	0.125	0.125	0.130	0.0960	104	76.8	10.0-148	30.1	

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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.: 92513891

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3609665-3 R3609665-4

Parameter	Units	L1300744-07 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloropropene	mg/kg	ND	0.125	0.125	0.133	0.0672	106	53.8	10.0-153	65.7	R1
1,3-Dichloropropane	mg/kg	ND	0.125	0.125	0.116	0.110	92.8	88.0	10.0-154	5.31	
cis-1,3-Dichloropropene	mg/kg	ND	0.125	0.125	0.110	0.0947	88.0	75.8	10.0-151	14.9	
trans-1,3-Dichloropropene	mg/kg	ND	0.125	0.125	0.104	0.0954	83.2	76.3	10.0-148	8.63	
2,2-Dichloropropane	mg/kg	ND	0.125	0.125	0.0691	0.0366	55.3	29.3	10.0-138	61.5	R1
Diisopropyl ether	mg/kg	ND	0.125	0.125	0.117	0.102	93.6	81.6	10.0-147	13.7	
Ethylbenzene	mg/kg	ND	0.125	0.125	0.121	0.0746	96.8	59.7	10.0-160	47.4	R1
Hexachloro-1,3-butadiene	mg/kg	ND	0.125	0.125	0.0741	0.0519	59.3	41.5	10.0-160	35.2	
Isopropylbenzene (Cumene)	mg/kg	ND	0.125	0.125	0.122	0.0724	97.6	57.9	10.0-155	51.0	R1
p-Isopropyltoluene	mg/kg	ND	0.125	0.125	0.110	0.0682	88.0	54.6	10.0-160	46.9	R1
2-Butanone (MEK)	mg/kg	ND	0.625	0.625	0.647	0.671	104	107	10.0-160	3.64	
Methylene Chloride	mg/kg	ND	0.125	0.125	0.0246	0.0151	19.7	12.1	10.0-141	47.9	R1
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.625	0.625	0.560	0.659	89.6	105	10.0-160	16.2	
Methyl-tert-butyl ether	mg/kg	ND	0.125	0.125	0.120	0.119	96.0	95.2	11.0-147	0.837	
Naphthalene	mg/kg	ND	0.125	0.125	0.0928	0.109	74.2	87.2	10.0-160	16.1	
n-Propylbenzene	mg/kg	ND	0.125	0.125	0.130	0.0756	104	60.5	10.0-158	52.9	R1
Styrene	mg/kg	ND	0.125	0.125	0.116	0.0862	92.8	69.0	10.0-160	29.5	
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.125	0.125	0.113	0.0892	90.4	71.4	10.0-149	23.5	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.125	0.125	0.0878	0.0922	70.2	73.8	10.0-160	4.89	
Tetrachloroethene	mg/kg	ND	0.125	0.125	0.131	0.0699	105	55.9	10.0-156	60.8	R1
Toluene	mg/kg	ND	0.125	0.125	0.127	0.0811	102	64.9	10.0-156	44.1	R1
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.125	0.125	0.115	0.0505	92.0	40.4	10.0-160	77.9	R1
1,2,3-Trichlorobenzene	mg/kg	ND	0.125	0.125	0.0810	0.0825	64.8	66.0	10.0-160	1.83	
1,2,4-Trichlorobenzene	mg/kg	ND	0.125	0.125	0.0818	0.0768	65.4	61.4	10.0-160	6.31	
1,1,1-Trichloroethane	mg/kg	ND	0.125	0.125	0.102	0.0442	81.6	35.4	10.0-144	79.1	R1
1,1,2-Trichloroethane	mg/kg	ND	0.125	0.125	0.114	0.114	91.2	91.2	10.0-160	0.00	
Trichloroethene	mg/kg	ND	0.125	0.125	0.157	0.111	126	88.8	10.0-156	34.3	
Trichlorofluoromethane	mg/kg	ND	0.125	0.125	0.0836	0.0277	66.9	22.2	10.0-160	100	R1
1,2,3-Trichloropropane	mg/kg	ND	0.125	0.125	0.125	0.138	100	110	10.0-156	9.89	
1,2,3-Trimethylbenzene	mg/kg	ND	0.125	0.125	0.109	0.0860	87.2	68.8	10.0-160	23.6	
1,2,4-Trimethylbenzene	mg/kg	ND	0.125	0.125	0.121	0.0806	96.8	64.5	10.0-160	40.1	R1
1,3,5-Trimethylbenzene	mg/kg	ND	0.125	0.125	0.121	0.0805	96.8	64.4	10.0-160	40.2	R1
Vinyl chloride	mg/kg	ND	0.125	0.125	0.115	0.0556	92.0	44.5	10.0-160	69.6	R1
Xylene (Total)	mg/kg	ND	0.375	0.375	0.369	0.225	98.4	60.0	10.0-160	48.5	R1
Toluene-d8 (S)	%						101	101	75.0-131		
4-Bromofluorobenzene (S)	%						93.7	95.9	67.0-138		
1,2-Dichloroethane-d4 (S)	%						104	107	70.0-130		

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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.: 92513891

QC Batch: 589843
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D 5035A 5030B
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513891003

METHOD BLANK: 3115013 Matrix: Solid
Associated Lab Samples: 92513891003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/29/20 16:08	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/29/20 16:08	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/29/20 16:08	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/29/20 16:08	
1,1-Dichloroethane	ug/kg	ND	5.0	12/29/20 16:08	
1,1-Dichloroethene	ug/kg	ND	5.0	12/29/20 16:08	
1,1-Dichloropropene	ug/kg	ND	5.0	12/29/20 16:08	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/29/20 16:08	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/29/20 16:08	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/29/20 16:08	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/29/20 16:08	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	12/29/20 16:08	v2
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/29/20 16:08	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/29/20 16:08	
1,2-Dichloroethane	ug/kg	ND	5.0	12/29/20 16:08	
1,2-Dichloropropane	ug/kg	ND	5.0	12/29/20 16:08	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/29/20 16:08	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/29/20 16:08	
1,3-Dichloropropane	ug/kg	ND	5.0	12/29/20 16:08	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/29/20 16:08	
2,2-Dichloropropane	ug/kg	ND	5.0	12/29/20 16:08	
2-Butanone (MEK)	ug/kg	ND	100	12/29/20 16:08	
2-Chlorotoluene	ug/kg	ND	5.0	12/29/20 16:08	
2-Hexanone	ug/kg	ND	50.0	12/29/20 16:08	
4-Chlorotoluene	ug/kg	ND	5.0	12/29/20 16:08	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	12/29/20 16:08	
Acetone	ug/kg	ND	100	12/29/20 16:08	
Benzene	ug/kg	ND	5.0	12/29/20 16:08	
Bromobenzene	ug/kg	ND	5.0	12/29/20 16:08	
Bromochloromethane	ug/kg	ND	5.0	12/29/20 16:08	
Bromodichloromethane	ug/kg	ND	5.0	12/29/20 16:08	IK
Bromoform	ug/kg	ND	5.0	12/29/20 16:08	
Bromomethane	ug/kg	ND	10.0	12/29/20 16:08	v1
Carbon tetrachloride	ug/kg	ND	5.0	12/29/20 16:08	
Chlorobenzene	ug/kg	ND	5.0	12/29/20 16:08	
Chloroethane	ug/kg	ND	10.0	12/29/20 16:08	
Chloroform	ug/kg	ND	5.0	12/29/20 16:08	
Chloromethane	ug/kg	ND	10.0	12/29/20 16:08	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/29/20 16:08	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/29/20 16:08	

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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.: 92513891

METHOD BLANK: 3115013 Matrix: Solid
Associated Lab Samples: 92513891003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	12/29/20 16:08	
Dibromomethane	ug/kg	ND	5.0	12/29/20 16:08	
Dichlorodifluoromethane	ug/kg	ND	10.0	12/29/20 16:08	
Diisopropyl ether	ug/kg	ND	5.0	12/29/20 16:08	
Ethylbenzene	ug/kg	ND	5.0	12/29/20 16:08	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	12/29/20 16:08	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/29/20 16:08	
m&p-Xylene	ug/kg	ND	10.0	12/29/20 16:08	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/29/20 16:08	
Methylene Chloride	ug/kg	ND	20.0	12/29/20 16:08	
n-Butylbenzene	ug/kg	ND	5.0	12/29/20 16:08	
n-Propylbenzene	ug/kg	ND	5.0	12/29/20 16:08	
Naphthalene	ug/kg	ND	5.0	12/29/20 16:08	
o-Xylene	ug/kg	ND	5.0	12/29/20 16:08	
p-Isopropyltoluene	ug/kg	ND	5.0	12/29/20 16:08	
sec-Butylbenzene	ug/kg	ND	5.0	12/29/20 16:08	
Styrene	ug/kg	ND	5.0	12/29/20 16:08	
tert-Butylbenzene	ug/kg	ND	5.0	12/29/20 16:08	v2
Tetrachloroethene	ug/kg	ND	5.0	12/29/20 16:08	
Toluene	ug/kg	ND	5.0	12/29/20 16:08	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/29/20 16:08	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/29/20 16:08	
Trichloroethene	ug/kg	ND	5.0	12/29/20 16:08	
Trichlorofluoromethane	ug/kg	ND	5.0	12/29/20 16:08	
Vinyl acetate	ug/kg	ND	50.0	12/29/20 16:08	
Vinyl chloride	ug/kg	ND	10.0	12/29/20 16:08	
Xylene (Total)	ug/kg	ND	10.0	12/29/20 16:08	
1,2-Dichloroethane-d4 (S)	%	109	70-130	12/29/20 16:08	
4-Bromofluorobenzene (S)	%	98	69-134	12/29/20 16:08	
Toluene-d8 (S)	%	102	70-130	12/29/20 16:08	

LABORATORY CONTROL SAMPLE: 3115014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1050	84	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1190	95	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1070	85	70-130	
1,1,2-Trichloroethane	ug/kg	1250	1210	97	70-130	
1,1-Dichloroethane	ug/kg	1250	1120	89	70-130	
1,1-Dichloroethene	ug/kg	1250	1150	92	70-130	
1,1-Dichloropropene	ug/kg	1250	1100	88	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1130	91	65-130	
1,2,3-Trichloropropane	ug/kg	1250	1110	89	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1140	91	68-130	

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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.: 92513891

LABORATORY CONTROL SAMPLE: 3115014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1250	1060	84	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1120	90	70-130	v2
1,2-Dibromoethane (EDB)	ug/kg	1250	1100	88	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1080	86	70-130	
1,2-Dichloroethane	ug/kg	1250	1230	98	63-130	
1,2-Dichloropropane	ug/kg	1250	1050	84	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1160	93	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1110	89	70-130	
1,3-Dichloropropane	ug/kg	1250	1120	90	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1080	87	70-130	
2,2-Dichloropropane	ug/kg	1250	1220	98	66-130	
2-Butanone (MEK)	ug/kg	2500	2570	103	70-130	
2-Chlorotoluene	ug/kg	1250	1040	83	70-130	
2-Hexanone	ug/kg	2500	2460	98	70-130	
4-Chlorotoluene	ug/kg	1250	1010	81	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2340	94	70-130	
Acetone	ug/kg	2500	2780	111	69-130	
Benzene	ug/kg	1250	1020	82	70-130	
Bromobenzene	ug/kg	1250	1080	86	70-130	
Bromochloromethane	ug/kg	1250	1250	100	70-130	
Bromodichloromethane	ug/kg	1250	1100	88	69-130	IK
Bromoform	ug/kg	1250	1110	89	70-130	
Bromomethane	ug/kg	1250	1810	145	52-130	L1,v1
Carbon tetrachloride	ug/kg	1250	991	79	70-130	
Chlorobenzene	ug/kg	1250	1070	86	70-130	
Chloroethane	ug/kg	1250	1230	98	65-130	
Chloroform	ug/kg	1250	1100	88	70-130	
Chloromethane	ug/kg	1250	1100	88	55-130	
cis-1,2-Dichloroethene	ug/kg	1250	1100	88	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1060	85	70-130	
Dibromochloromethane	ug/kg	1250	1110	89	70-130	
Dibromomethane	ug/kg	1250	1150	92	70-130	
Dichlorodifluoromethane	ug/kg	1250	1250	100	45-156	
Diisopropyl ether	ug/kg	1250	1070	86	70-130	
Ethylbenzene	ug/kg	1250	1210	97	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1060	85	66-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1080	87	70-130	
m&p-Xylene	ug/kg	2500	2070	83	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1120	90	70-130	
Methylene Chloride	ug/kg	1250	1230	98	65-130	
n-Butylbenzene	ug/kg	1250	1050	84	67-130	
n-Propylbenzene	ug/kg	1250	1030	82	70-130	
Naphthalene	ug/kg	1250	1200	96	70-130	
o-Xylene	ug/kg	1250	1030	83	70-130	
p-Isopropyltoluene	ug/kg	1250	1040	83	67-130	
sec-Butylbenzene	ug/kg	1250	1060	84	69-130	
Styrene	ug/kg	1250	1040	83	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.: 92513891

LABORATORY CONTROL SAMPLE: 3115014

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1250	756	61	67-130	L2,v2
Tetrachloroethene	ug/kg	1250	1090	87	70-130	
Toluene	ug/kg	1250	996	80	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1120	90	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1030	82	68-130	
Trichloroethene	ug/kg	1250	1050	84	70-130	
Trichlorofluoromethane	ug/kg	1250	1150	92	70-130	
Vinyl acetate	ug/kg	2500	2290	92	70-130	
Vinyl chloride	ug/kg	1250	1140	91	61-130	
Xylene (Total)	ug/kg	3750	3100	83	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	69-134	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3115016

Parameter	Units	92513926002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	900	791	88	70-131	
1,1,1-Trichloroethane	ug/kg	ND	900	942	105	65-133	
1,1,2,2-Tetrachloroethane	ug/kg	ND	900	816	91	66-130	
1,1,2-Trichloroethane	ug/kg	ND	900	953	106	66-133	
1,1-Dichloroethane	ug/kg	ND	900	870	97	65-130	
1,1-Dichloroethene	ug/kg	ND	900	801	89	10-158	
1,1-Dichloropropene	ug/kg	ND	900	852	95	68-133	
1,2,3-Trichlorobenzene	ug/kg	ND	900	895	99	27-138	
1,2,3-Trichloropropane	ug/kg	ND	900	738	82	67-130	
1,2,4-Trichlorobenzene	ug/kg	ND	900	919	102	51-134	
1,2,4-Trimethylbenzene	ug/kg	477	900	1280	89	63-136	
1,2-Dibromo-3-chloropropane	ug/kg	ND	900	793	88	32-130	v2
1,2-Dibromoethane (EDB)	ug/kg	ND	900	813	90	70-130	
1,2-Dichlorobenzene	ug/kg	ND	900	833	93	69-130	
1,2-Dichloroethane	ug/kg	ND	900	978	109	59-130	
1,2-Dichloropropane	ug/kg	ND	900	819	91	70-130	
1,3,5-Trimethylbenzene	ug/kg	130	900	1010	98	65-137	
1,3-Dichlorobenzene	ug/kg	ND	900	844	94	70-130	
1,3-Dichloropropane	ug/kg	ND	900	849	94	70-130	
1,4-Dichlorobenzene	ug/kg	ND	900	785	87	68-130	
2,2-Dichloropropane	ug/kg	ND	900	915	102	32-130	
2-Butanone (MEK)	ug/kg	ND	1810	1720	95	10-136	
2-Chlorotoluene	ug/kg	ND	900	812	90	69-141	
2-Hexanone	ug/kg	ND	1810	1640	91	10-144	
4-Chlorotoluene	ug/kg	ND	900	745	83	70-132	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	1810	1700	94	25-143	
Acetone	ug/kg	ND	1810	1500	83	10-130	
Benzene	ug/kg	ND	900	811	90	67-130	

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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.: 92513891

MATRIX SPIKE SAMPLE: 3115016

Parameter	Units	92513926002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	900	805	89	70-130	
Bromochloromethane	ug/kg	ND	900	979	109	69-134	
Bromodichloromethane	ug/kg	ND	900	824	92	64-130	IK
Bromoform	ug/kg	ND	900	754	84	62-130	
Bromomethane	ug/kg	ND	900	1010	112	20-176	v1
Carbon tetrachloride	ug/kg	ND	900	709	79	65-140	
Chlorobenzene	ug/kg	ND	900	821	91	70-130	
Chloroethane	ug/kg	ND	900	92.6	10	10-130	
Chloroform	ug/kg	ND	900	889	99	63-130	
Chloromethane	ug/kg	ND	900	965	107	58-130	
cis-1,2-Dichloroethene	ug/kg	ND	900	873	97	66-130	
cis-1,3-Dichloropropene	ug/kg	ND	900	816	91	67-130	
Dibromochloromethane	ug/kg	ND	900	783	87	67-130	
Dibromomethane	ug/kg	ND	900	871	97	63-131	
Dichlorodifluoromethane	ug/kg	ND	900	887	99	44-180	
Diisopropyl ether	ug/kg	ND	900	814	90	63-130	
Ethylbenzene	ug/kg	70.9	900	980	101	66-130	
Hexachloro-1,3-butadiene	ug/kg	ND	900	1220	135	64-150	
Isopropylbenzene (Cumene)	ug/kg	67.7	900	899	92	69-135	
m&p-Xylene	ug/kg	196	1810	1720	85	60-133	
Methyl-tert-butyl ether	ug/kg	ND	900	866	96	65-130	
Methylene Chloride	ug/kg	ND	900	974	108	61-130	
n-Butylbenzene	ug/kg	115	900	1030	102	65-140	
n-Propylbenzene	ug/kg	106	900	873	85	67-140	
Naphthalene	ug/kg	586	900	1450	96	15-145	
o-Xylene	ug/kg	129	900	916	87	66-133	
p-Isopropyltoluene	ug/kg	189	900	1250	118	56-147	
sec-Butylbenzene	ug/kg	114	900	1000	99	65-139	
Styrene	ug/kg	ND	900	779	87	70-132	
tert-Butylbenzene	ug/kg	ND	900	619	69	62-135	v2
Tetrachloroethene	ug/kg	ND	900	769	85	70-135	
Toluene	ug/kg	28.2	900	822	88	67-130	
trans-1,2-Dichloroethene	ug/kg	ND	900	885	98	69-130	
trans-1,3-Dichloropropene	ug/kg	ND	900	773	86	62-130	
Trichloroethene	ug/kg	ND	900	806	90	70-135	
Trichlorofluoromethane	ug/kg	ND	900	256	28	10-130	
Vinyl acetate	ug/kg	ND	1810	1640	91	53-130	
Vinyl chloride	ug/kg	ND	900	928	103	61-148	
Xylene (Total)	ug/kg	325	2700	2640	86	63-132	
1,2-Dichloroethane-d4 (S)	%				127	70-130	
4-Bromofluorobenzene (S)	%				100	69-134	
Toluene-d8 (S)	%				101	70-130	

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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.: 92513891

SAMPLE DUPLICATE: 3115015

Parameter	Units	92513926001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	5.4J		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		v2
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		IK
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		v1
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		

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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.: 92513891

SAMPLE DUPLICATE: 3115015

Parameter	Units	92513926001 Result	Dup Result	RPD	Qualifiers
m&p-Xylene	ug/kg	ND	ND		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	7J		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	6.1J		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		v2
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	105	109		
4-Bromofluorobenzene (S)	%	98	98		
Toluene-d8 (S)	%	100	100		

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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.: 92513891

QC Batch: 589863
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513891003

SAMPLE DUPLICATE: 3115162

Parameter	Units	92513747001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.1	20.2	0	

SAMPLE DUPLICATE: 3115167

Parameter	Units	92513825010 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	27.4	26.6	3	

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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.: 92513891

QC Batch: 1600967
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: 92513891001, 92513891002, 92513891003

METHOD BLANK: R3610082-1 Matrix: Solid
Associated Lab Samples: 92513891001, 92513891002, 92513891003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00200		01/05/21 13:05	

LABORATORY CONTROL SAMPLE: R3610082-2

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

SAMPLE DUPLICATE: R3610082-3

Parameter	Units	92513891001 Result	Dup Result	RPD	Qualifiers
Total Solids	%	92.6	92.7	0.167	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513891

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.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513891

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513891001	**MW-66 40'-42'**	MADEPV	1599877	MADEP VPH	1599877
92513891002	**MW-66 40'-42'**	MADEPV	1599877	MADEP VPH	1599877
92513891003	**MW-68 30'-32'**	MADEPV	1599877	MADEP VPH	1599877
92513891001	**MW-66 40'-42'**	5035A	1600126	EPA 8260D	1600126
92513891002	**MW-66 40'-42'**	5035A	1600126	EPA 8260D	1600126
92513891003	**MW-68 30'-32'**	EPA 5035A/5030B	589843	EPA 8260D	589855
92513891003	**MW-68 30'-32'**	ASTM D2974-87	589863		
92513891001	**MW-66 40'-42'**	SM 2540 G	1600967	SM 2540G	1600967
92513891002	**MW-66 40'-42'**	SM 2540 G	1600967	SM 2540G	1600967
92513891003	**MW-68 30'-32'**	SM 2540 G	1600967	SM 2540G	1600967

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92513891

92513891

LAB USE ONLY — Lab Number or

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	State: NC / County/City: Huntersville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #:
Collected By (print): Matt Fraioli / Kyle Zoyke	Purchase Order #: / Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [X] 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: [X] Yes [ ] No

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

Analysis: _____

Container Preservative Type **: G G

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	MADEP VPH	8260 by VC						Lab Sample # / Comments
MW-66 (40'-42')	SL	G	12/22	1411				3	X	X						92513891 001
MW-66 (40-42')	SL	G	12/22	1415				3	X	X						002
MW-68 (30'-32')	SL	G	12/23	1200				6	X	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:

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

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

Lab Tracking #: 2561474

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 52064

Cooler 1 Temp Upon Receipt: 4.2 oC

Cooler 1 Therm Corr. Factor: -.1 oC

Cooler 1 Corrected Temp: 4.1 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Matt Fraioli	12/22/20 1715	MATT GORMAN	12/22/20 17:15
MATT GORMAN	12/23/20 15:50	Apex	12-23-20/ 1550
Apex	12-28-20/	MD Pace HW	12-28-20 16:55

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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

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 (1/4/21)
Pace Project No.: 92514598

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514598001	**MW-35**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598002	**MW-36**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598003	**MW-15**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598004	**MW-37**	MADEP VPH	JHH	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598005	**MW-12**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598006	**MW-32**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598007	**MW-33**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598008	**MW-34**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514598009	**MW-2**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598010	**MW-4**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598011	**MW-6**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598012	**MW-20**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598013	**MW-25**	MADEP VPH	ADM	6	PAN

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598014	**MW-9**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598015	**MW-30**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598016	**MW-1**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598017	**MW-27**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598018	**MW-05**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598019	**MW-7**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598020	**MW-3**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598021	**DUP-1-20210104**	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514598022	**FB-1-20210104**	MADEP VPH	ADM	6	PAN
		SM 6200B	PM1	63	PASI-C
92514598023	**Trip Blank**	SM 6200B	PM1	63	PASI-C

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

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-35 **Lab ID: 92514598001** Collected: 01/04/21 08:45 Received: 01/04/21 16:40 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	01/07/21 14:56	01/07/21 14:56		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 14:56	01/07/21 14:56		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 14:56	01/07/21 14:56	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 14:56	01/07/21 14:56	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.7	%	70.0-130	1	01/07/21 14:56	01/07/21 14:56	615-59-8FID	
2,5-Dibromotoluene (PID)	88.2	%	70.0-130	1	01/07/21 14:56	01/07/21 14:56	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**13.8**	ug/L	5.0	1	01/07/21 02:07	01/07/21 14:40	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 17:29	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 17:29	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 17:29	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 17:29	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 17:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 17:29	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:29	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:29	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:29	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 17:29	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 17:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 17:29	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 17:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 17:29	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:29	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 17:29	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 17:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 17:29	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 17:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 17:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:29	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-35 **Lab ID: 92514598001** Collected: 01/04/21 08:45 Received: 01/04/21 16:40 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		01/05/21 17:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:29	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 17:29	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 17:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 17:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 17:29	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 17:29	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 17:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 17:29	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 17:29	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 17:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:29	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 17:29	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 17:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:29	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 17:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 17:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 17:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 17:29	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 17:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 17:29	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/05/21 17:29	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/05/21 17:29	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/05/21 17:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-36 **Lab ID: 92514598002** Collected: 01/04/21 09:20 Received: 01/04/21 16:40 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	01/06/21 23:27	01/06/21 23:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/06/21 23:27	01/06/21 23:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/06/21 23:27	01/06/21 23:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/06/21 23:27	01/06/21 23:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.0	%	70.0-130	1	01/06/21 23:27	01/06/21 23:27	615-59-8FID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	01/06/21 23:27	01/06/21 23:27	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**6.9**	ug/L	5.0	1	01/07/21 02:07	01/07/21 14:43	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 17:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 17:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 17:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 17:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 17:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 17:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 17:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 17:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 17:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 17:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 17:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 17:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 17:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 17:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 17:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 17:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:47	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-36 **Lab ID: 92514598002** Collected: 01/04/21 09:20 Received: 01/04/21 16:40 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		01/05/21 17:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 17:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 17:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 17:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 17:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 17:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 17:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 17:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 17:47	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 17:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 17:47	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 17:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 17:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 17:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 17:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 17:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 17:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 17:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/05/21 17:47	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 17:47	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/05/21 17:47	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-15 **Lab ID: 92514598003** Collected: 01/04/21 09:30 Received: 01/04/21 16:40 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	01/07/21 15:36	01/07/21 15:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 15:36	01/07/21 15:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 15:36	01/07/21 15:36	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 15:36	01/07/21 15:36	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/07/21 15:36	01/07/21 15:36	615-59-8FID	
2,5-Dibromotoluene (PID)	89.2	%	70.0-130	1	01/07/21 15:36	01/07/21 15:36	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**13.5**	ug/L	5.0	1	01/07/21 02:07	01/07/21 14:46	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 18:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 18:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 18:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 18:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 18:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 18:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 18:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 18:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 18:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 18:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 18:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 18:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 18:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 18:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 18:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 18:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:05	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-15 **Lab ID: 92514598003** Collected: 01/04/21 09:30 Received: 01/04/21 16:40 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		01/05/21 18:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 18:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 18:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 18:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 18:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 18:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 18:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 18:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 18:05	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 18:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 18:05	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 18:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 18:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 18:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 18:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 18:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 18:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 18:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/05/21 18:05	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/05/21 18:05	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/05/21 18:05	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 Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-37 **Lab ID: 92514598004** Collected: 01/04/21 09:50 Received: 01/04/21 16:40 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	01/07/21 00:33	01/07/21 00:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 00:33	01/07/21 00:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 00:33	01/07/21 00:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 00:33	01/07/21 00:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.3	%	70.0-130	1	01/07/21 00:33	01/07/21 00:33	615-59-8FID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	01/07/21 00:33	01/07/21 00:33	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	01/07/21 02:07	01/08/21 12:58	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 18:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 18:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 18:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 18:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 18:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 18:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 18:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 18:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 18:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 18:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 18:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 18:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 18:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 18:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 18:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 18:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:23	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-37 **Lab ID: 92514598004** Collected: 01/04/21 09:50 Received: 01/04/21 16:40 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		01/05/21 18:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 18:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 18:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 18:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 18:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 18:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 18:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 18:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 18:23	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 18:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:23	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 18:23	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 18:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 18:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 18:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 18:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 18:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 18:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 18:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/05/21 18:23	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/05/21 18:23	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/05/21 18:23	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-12 **Lab ID: 92514598005** Collected: 01/04/21 10:25 Received: 01/04/21 16:40 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	01/07/21 01:05	01/07/21 01:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 01:05	01/07/21 01:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 01:05	01/07/21 01:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 01:05	01/07/21 01:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.0	%	70.0-130	1	01/07/21 01:05	01/07/21 01:05	615-59-8FID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	01/07/21 01:05	01/07/21 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	01/07/21 02:07	01/08/21 13:24	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 18:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 18:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 18:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 18:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 18:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 18:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 18:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 18:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 18:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 18:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 18:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 18:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 18:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 18:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 18:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 18:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:41	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: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-12 **Lab ID: 92514598005** Collected: 01/04/21 10:25 Received: 01/04/21 16:40 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		01/05/21 18:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:41	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 18:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 18:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 18:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 18:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 18:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 18:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 18:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 18:41	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 18:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 18:41	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 18:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 18:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 18:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 18:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 18:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 18:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 18:41	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 18:41	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 18:41	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/05/21 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 Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-32 **Lab ID: 92514598006** Collected: 01/04/21 10:30 Received: 01/04/21 16:40 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	01/07/21 01:38	01/07/21 01:38		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 01:38	01/07/21 01:38		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 01:38	01/07/21 01:38	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 01:38	01/07/21 01:38	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.6	%	70.0-130	1	01/07/21 01:38	01/07/21 01:38	615-59-8FID	
2,5-Dibromotoluene (PID)	102	%	70.0-130	1	01/07/21 01:38	01/07/21 01:38	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**16.5**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:27	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 18:59	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 18:59	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 18:59	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 18:59	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 18:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 18:59	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:59	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:59	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:59	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 18:59	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 18:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 18:59	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 18:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 18:59	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:59	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 18:59	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 18:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 18:59	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 18:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 18:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:59	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-32 **Lab ID: 92514598006** Collected: 01/04/21 10:30 Received: 01/04/21 16:40 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		01/05/21 18:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:59	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 18:59	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 18:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 18:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 18:59	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 18:59	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 18:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 18:59	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 18:59	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 18:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:59	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 18:59	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 18:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:59	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 18:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 18:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 18:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:59	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 18:59	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 18:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 18:59	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/05/21 18:59	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/05/21 18:59	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/05/21 18:59	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-33 **Lab ID: 92514598007** Collected: 01/04/21 11:00 Received: 01/04/21 16:40 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	01/07/21 02:11	01/07/21 02:11		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 02:11	01/07/21 02:11		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 02:11	01/07/21 02:11	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 02:11	01/07/21 02:11	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	01/07/21 02:11	01/07/21 02:11	615-59-8FID	
2,5-Dibromotoluene (PID)	104	%	70.0-130	1	01/07/21 02:11	01/07/21 02:11	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**14.3**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:30	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 19:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 19:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 19:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 19:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 19:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 19:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 19:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 19:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 19:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 19:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 19:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 19:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 19:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 19:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 19:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 19:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 19:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 19:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 19:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 19:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 19:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 19:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 19:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 19:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 19:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 19:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 19:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 19:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 19:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 19:17	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-33 **Lab ID: 92514598007** Collected: 01/04/21 11:00 Received: 01/04/21 16:40 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		01/05/21 19:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 19:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 19:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 19:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 19:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 19:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 19:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 19:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 19:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 19:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 19:17	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 19:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 19:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 19:17	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 19:17	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 19:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 19:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 19:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 19:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 19:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 19:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 19:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 19:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 19:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 19:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 19:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 19:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 19:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/05/21 19:17	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 19:17	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/05/21 19:17	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-34 **Lab ID: 92514598008** Collected: 01/04/21 11:20 Received: 01/04/21 16:40 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	01/07/21 02:44	01/07/21 02:44		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 02:44	01/07/21 02:44		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 02:44	01/07/21 02:44	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 02:44	01/07/21 02:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	01/07/21 02:44	01/07/21 02:44	615-59-8FID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	01/07/21 02:44	01/07/21 02:44	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**10.9**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:33	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 19:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 19:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 19:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 19:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 19:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 19:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 19:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 19:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 19:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 19:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 19:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 19:35	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 19:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 19:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 19:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 19:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 19:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 19:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 19:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 19:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 19:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 19:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 19:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 19:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 19:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 19:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 19:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 19:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 19:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 19:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 19:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 19:35	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-34 **Lab ID: 92514598008** Collected: 01/04/21 11:20 Received: 01/04/21 16:40 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		01/05/21 19:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 19:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 19:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 19:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 19:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 19:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 19:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 19:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 19:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 19:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 19:35	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 19:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 19:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 19:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 19:35	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 19:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 19:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 19:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 19:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 19:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 19:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 19:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 19:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 19:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 19:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 19:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 19:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/05/21 19:35	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 19:35	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/05/21 19:35	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-2 **Lab ID: 92514598009** Collected: 01/04/21 11:26 Received: 01/04/21 16:40 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	01/07/21 03:17	01/07/21 03:17		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 03:17	01/07/21 03:17		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 03:17	01/07/21 03:17	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 03:17	01/07/21 03:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.0	%	70.0-130	1	01/07/21 03:17	01/07/21 03:17	615-59-8FID	
2,5-Dibromotoluene (PID)	104	%	70.0-130	1	01/07/21 03:17	01/07/21 03:17	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**12.1**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:36	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 14:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 14:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 14:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 14:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 14:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 14:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 14:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 14:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 14:42	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 14:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 14:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 14:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 14:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 14:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 14:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 14:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 14:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 14:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 14:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 14:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-2 **Lab ID: 92514598009** Collected: 01/04/21 11:26 Received: 01/04/21 16:40 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		01/05/21 14:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 14:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 14:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 14:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 14:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 14:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 14:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 14:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 14:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 14:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 14:42	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 14:42	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 14:42	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 14:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 14:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 14:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 14:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 14:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 14:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 14:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 14:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 14:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 14:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 14:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 14:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 14:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 14:42	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/05/21 14:42	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-4 **Lab ID: 92514598010** Collected: 01/04/21 11:46 Received: 01/04/21 16:40 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	01/07/21 03:50	01/07/21 03:50		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 03:50	01/07/21 03:50		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 03:50	01/07/21 03:50	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 03:50	01/07/21 03:50	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.6	%	70.0-130	1	01/07/21 03:50	01/07/21 03:50	615-59-8FID	
2,5-Dibromotoluene (PID)	104	%	70.0-130	1	01/07/21 03:50	01/07/21 03:50	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**14.6**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:40	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 15:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 15:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 15:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 15:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 15:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 15:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 15:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 15:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 15:00	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 15:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 15:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 15:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 15:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 15:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 15:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 15:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-4 **Lab ID: 92514598010** Collected: 01/04/21 11:46 Received: 01/04/21 16:40 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		01/05/21 15:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 15:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 15:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 15:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 15:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 15:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 15:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 15:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 15:00	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:00	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 15:00	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 15:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 15:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 15:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 15:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 15:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 15:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 15:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/05/21 15:00	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 15:00	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-6 **Lab ID: 92514598011** Collected: 01/04/21 12:30 Received: 01/04/21 16:40 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	01/07/21 04:23	01/07/21 04:23		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 04:23	01/07/21 04:23		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 04:23	01/07/21 04:23	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 04:23	01/07/21 04:23	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.1	%	70.0-130	1	01/07/21 04:23	01/07/21 04:23	615-59-8FID	
2,5-Dibromotoluene (PID)	105	%	70.0-130	1	01/07/21 04:23	01/07/21 04:23	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**19.1**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:43	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 15:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 15:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 15:18	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 15:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 15:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 15:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 15:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 15:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 15:18	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 15:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 15:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 15:18	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 15:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 15:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 15:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 15:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:18	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-6 **Lab ID: 92514598011** Collected: 01/04/21 12:30 Received: 01/04/21 16:40 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		01/05/21 15:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:18	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 15:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 15:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 15:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 15:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 15:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 15:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 15:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 15:18	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 15:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:18	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 15:18	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 15:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 15:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 15:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 15:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 15:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 15:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 15:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/05/21 15:18	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 15:18	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/05/21 15:18	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-20 **Lab ID: 92514598012** Collected: 01/04/21 13:50 Received: 01/04/21 16:40 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	01/07/21 04:56	01/07/21 04:56		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 04:56	01/07/21 04:56		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 04:56	01/07/21 04:56	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 04:56	01/07/21 04:56	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.3	%	70.0-130	1	01/07/21 04:56	01/07/21 04:56	615-59-8FID	
2,5-Dibromotoluene (PID)	104	%	70.0-130	1	01/07/21 04:56	01/07/21 04:56	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**24.4**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:46	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 17:58	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 17:58	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 17:58	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 17:58	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 17:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 17:58	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:58	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:58	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:58	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 17:58	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 17:58	75-00-3	
Chloroform	**0.82**	ug/L	0.50	1		01/05/21 17:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 17:58	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:58	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 17:58	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 17:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 17:58	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 17:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 17:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:58	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-20 **Lab ID: 92514598012** Collected: 01/04/21 13:50 Received: 01/04/21 16:40 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		01/05/21 17:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:58	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 17:58	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 17:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 17:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 17:58	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 17:58	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 17:58	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 17:58	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 17:58	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 17:58	127-18-4	
Toluene	**1.1**	ug/L	0.50	1		01/05/21 17:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:58	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 17:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 17:58	96-18-4	
1,2,4-Trimethylbenzene	**2.2**	ug/L	0.50	1		01/05/21 17:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 17:58	75-01-4	
m&p-Xylene	**1.5**	ug/L	1.0	1		01/05/21 17:58	179601-23-1	
o-Xylene	**0.86**	ug/L	0.50	1		01/05/21 17:58	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/05/21 17:58	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/05/21 17:58	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/05/21 17:58	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-25 **Lab ID: 92514598013** Collected: 01/04/21 14:15 Received: 01/04/21 16:40 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	01/08/21 03:12	01/08/21 03:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 03:12	01/08/21 03:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 03:12	01/08/21 03:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 03:12	01/08/21 03:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	01/08/21 03:12	01/08/21 03:12	615-59-8FID	
2,5-Dibromotoluene (PID)	90.2	%	70.0-130	1	01/08/21 03:12	01/08/21 03:12	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**160**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:49	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 17:40	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 17:40	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 17:40	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 17:40	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 17:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 17:40	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:40	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:40	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:40	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 17:40	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 17:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 17:40	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 17:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 17:40	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:40	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 17:40	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 17:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 17:40	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 17:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 17:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:40	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-25 **Lab ID: 92514598013** Collected: 01/04/21 14:15 Received: 01/04/21 16:40 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		01/05/21 17:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:40	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 17:40	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 17:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 17:40	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 17:40	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 17:40	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 17:40	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 17:40	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 17:40	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 17:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:40	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 17:40	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 17:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:40	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 17:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 17:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 17:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 17:40	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 17:40	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 17:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/05/21 17:40	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/05/21 17:40	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/05/21 17:40	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-9 **Lab ID: 92514598014** Collected: 01/04/21 13:10 Received: 01/04/21 16:40 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	01/08/21 03:45	01/08/21 03:45		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 03:45	01/08/21 03:45		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 03:45	01/08/21 03:45	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 03:45	01/08/21 03:45	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/08/21 03:45	01/08/21 03:45	615-59-8FID	
2,5-Dibromotoluene (PID)	89.5	%	70.0-130	1	01/08/21 03:45	01/08/21 03:45	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.1**	ug/L	5.0	1	01/07/21 02:07	01/08/21 13:53	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 15:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 15:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 15:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 15:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 15:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 15:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 15:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 15:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 15:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 15:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 15:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 15:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 15:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 15:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 15:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 15:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:36	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-9 **Lab ID: 92514598014** Collected: 01/04/21 13:10 Received: 01/04/21 16:40 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		01/05/21 15:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:36	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 15:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 15:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 15:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 15:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 15:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 15:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 15:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 15:36	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 15:36	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 15:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 15:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 15:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 15:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 15:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 15:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 15:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 15:36	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/05/21 15:36	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/05/21 15:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-30 **Lab ID: 92514598015** Collected: 01/04/21 13:45 Received: 01/04/21 16:40 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	01/08/21 04:18	01/08/21 04:18		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 04:18	01/08/21 04:18		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 04:18	01/08/21 04:18	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 04:18	01/08/21 04:18	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.4	%	70.0-130	1	01/08/21 04:18	01/08/21 04:18	615-59-8FID	
2,5-Dibromotoluene (PID)	87.1	%	70.0-130	1	01/08/21 04:18	01/08/21 04:18	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	01/07/21 02:07	01/08/21 14:02	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 15:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 15:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 15:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 15:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 15:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 15:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 15:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 15:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 15:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 15:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 15:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 15:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 15:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 15:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 15:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 15:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 15:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 15:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 15:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 15:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 15:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 15:54	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-30 **Lab ID: 92514598015** Collected: 01/04/21 13:45 Received: 01/04/21 16:40 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		01/05/21 15:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 15:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 15:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 15:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 15:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 15:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 15:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 15:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 15:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 15:54	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 15:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 15:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 15:54	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 15:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 15:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 15:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 15:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 15:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 15:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 15:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 15:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 15:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 15:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 15:54	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/05/21 15:54	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/05/21 15:54	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-1 **Lab ID: 92514598016** Collected: 01/04/21 14:17 Received: 01/04/21 16:40 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	01/08/21 04:51	01/08/21 04:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 04:51	01/08/21 04:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 04:51	01/08/21 04:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 04:51	01/08/21 04:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	01/08/21 04:51	01/08/21 04:51	615-59-8FID	
2,5-Dibromotoluene (PID)	87.3	%	70.0-130	1	01/08/21 04:51	01/08/21 04:51	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**15.0**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:05	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 16:11	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 16:11	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 16:11	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 16:11	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 16:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 16:11	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:11	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:11	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:11	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 16:11	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 16:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 16:11	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 16:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 16:11	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 16:11	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 16:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 16:11	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 16:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 16:11	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 16:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 16:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 16:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:11	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: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-1 **Lab ID: 92514598016** Collected: 01/04/21 14:17 Received: 01/04/21 16:40 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		01/05/21 16:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 16:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 16:11	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 16:11	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 16:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 16:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 16:11	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 16:11	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 16:11	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 16:11	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 16:11	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 16:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 16:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 16:11	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 16:11	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 16:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 16:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 16:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 16:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 16:11	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 16:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 16:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 16:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 16:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 16:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 16:11	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 16:11	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 16:11	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/05/21 16:11	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 16:11	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/05/21 16:11	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-27 **Lab ID: 92514598017** Collected: 01/04/21 15:00 Received: 01/04/21 16:40 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	01/08/21 05:25	01/08/21 05:25		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 05:25	01/08/21 05:25		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 05:25	01/08/21 05:25	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 05:25	01/08/21 05:25	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	105	%	70.0-130	1	01/08/21 05:25	01/08/21 05:25	615-59-8FID	
2,5-Dibromotoluene (PID)	92.7	%	70.0-130	1	01/08/21 05:25	01/08/21 05:25	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**35.1**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:08	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 16:29	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 16:29	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 16:29	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 16:29	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 16:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 16:29	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:29	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:29	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:29	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 16:29	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 16:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 16:29	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 16:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 16:29	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 16:29	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 16:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 16:29	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 16:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 16:29	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 16:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 16:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 16:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:29	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-27 **Lab ID: 92514598017** Collected: 01/04/21 15:00 Received: 01/04/21 16:40 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		01/05/21 16:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 16:29	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 16:29	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 16:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 16:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 16:29	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 16:29	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 16:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 16:29	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 16:29	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 16:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 16:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 16:29	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 16:29	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 16:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 16:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 16:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 16:29	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 16:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 16:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 16:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 16:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 16:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 16:29	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 16:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 16:29	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/05/21 16:29	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/05/21 16:29	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/05/21 16:29	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-05 **Lab ID: 92514598018** Collected: 01/04/21 15:11 Received: 01/04/21 16:40 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	01/08/21 05:58	01/08/21 05:58		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 05:58	01/08/21 05:58		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 05:58	01/08/21 05:58	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 05:58	01/08/21 05:58	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.7	%	70.0-130	1	01/08/21 05:58	01/08/21 05:58	615-59-8FID	
2,5-Dibromotoluene (PID)	86.9	%	70.0-130	1	01/08/21 05:58	01/08/21 05:58	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**46.0**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:12	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 16:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 16:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 16:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 16:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 16:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 16:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 16:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 16:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 16:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 16:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 16:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 16:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 16:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 16:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 16:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 16:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 16:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 16:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 16:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 16:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 16:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 16:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 16:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 16:47	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: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-05 **Lab ID: 92514598018** Collected: 01/04/21 15:11 Received: 01/04/21 16:40 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		01/05/21 16:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 16:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 16:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 16:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 16:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 16:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 16:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 16:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 16:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 16:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 16:47	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 16:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 16:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 16:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 16:47	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 16:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 16:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 16:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 16:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 16:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 16:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 16:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 16:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 16:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 16:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 16:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 16:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 16:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/05/21 16:47	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/05/21 16:47	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/05/21 16:47	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-7 **Lab ID: 92514598019** Collected: 01/04/21 15:25 Received: 01/04/21 16:40 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	01/08/21 06:31	01/08/21 06:31		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 06:31	01/08/21 06:31		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 06:31	01/08/21 06:31	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 06:31	01/08/21 06:31	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.3	%	70.0-130	1	01/08/21 06:31	01/08/21 06:31	615-59-8FID	
2,5-Dibromotoluene (PID)	86.4	%	70.0-130	1	01/08/21 06:31	01/08/21 06:31	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**78.0**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:15	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 17:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 17:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 17:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 17:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 17:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 17:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 17:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 17:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 17:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 17:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 17:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 17:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 17:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 17:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 17:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 17:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:05	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: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-7 **Lab ID: 92514598019** Collected: 01/04/21 15:25 Received: 01/04/21 16:40 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		01/05/21 17:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 17:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 17:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 17:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 17:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 17:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 17:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 17:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 17:05	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 17:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 17:05	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 17:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 17:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 17:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 17:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 17:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 17:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 17:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 17:05	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/05/21 17:05	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/05/21 17:05	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 Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: MW-3 **Lab ID: 92514598020** Collected: 01/04/21 15:50 Received: 01/04/21 16:40 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	01/08/21 07:04	01/08/21 07:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 07:04	01/08/21 07:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 07:04	01/08/21 07:04	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 07:04	01/08/21 07:04	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.1	%	70.0-130	1	01/08/21 07:04	01/08/21 07:04	615-59-8FID	
2,5-Dibromotoluene (PID)	85.0	%	70.0-130	1	01/08/21 07:04	01/08/21 07:04	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**18.5**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:18	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 17:22	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 17:22	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 17:22	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 17:22	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 17:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 17:22	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:22	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:22	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 17:22	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 17:22	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 17:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 17:22	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 17:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 17:22	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:22	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 17:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 17:22	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 17:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 17:22	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 17:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 17:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 17:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 17:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 17:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 17:22	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 (1/4/21)
Pace Project No.: 92514598

Sample: MW-3 **Lab ID: 92514598020** Collected: 01/04/21 15:50 Received: 01/04/21 16:40 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		01/05/21 17:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 17:22	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 17:22	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 17:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 17:22	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 17:22	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 17:22	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 17:22	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 17:22	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 17:22	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 17:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 17:22	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 17:22	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 17:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 17:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 17:22	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 17:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 17:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 17:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 17:22	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 17:22	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 17:22	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 17:22	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/05/21 17:22	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/05/21 17:22	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/05/21 17:22	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 (1/4/21)
Pace Project No.: 92514598

Sample: DUP-1-20210104 **Lab ID: 92514598021** Collected: 01/04/21 00:00 Received: 01/04/21 16:40 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	01/08/21 07:38	01/08/21 07:38		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 07:38	01/08/21 07:38		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 07:38	01/08/21 07:38	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 07:38	01/08/21 07:38	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.2	%	70.0-130	1	01/08/21 07:38	01/08/21 07:38	615-59-8FID	
2,5-Dibromotoluene (PID)	85.5	%	70.0-130	1	01/08/21 07:38	01/08/21 07:38	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**14.5**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:21	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 18:16	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 18:16	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 18:16	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 18:16	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 18:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 18:16	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:16	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:16	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:16	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 18:16	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 18:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 18:16	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 18:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 18:16	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:16	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 18:16	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 18:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 18:16	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 18:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 18:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:16	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: DUP-1-20210104 **Lab ID: 92514598021** Collected: 01/04/21 00:00 Received: 01/04/21 16:40 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		01/05/21 18:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:16	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 18:16	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 18:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 18:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 18:16	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 18:16	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 18:16	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 18:16	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 18:16	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 18:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:16	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 18:16	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 18:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:16	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 18:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 18:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 18:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:16	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 18:16	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 18:16	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 18:16	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/05/21 18:16	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/05/21 18:16	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/05/21 18:16	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 Pipeline (1/4/21)
Pace Project No.: 92514598

Sample: FB-1-20210104 **Lab ID: 92514598022** Collected: 01/04/21 16:30 Received: 01/04/21 16:40 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	01/08/21 00:27	01/08/21 00:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 00:27	01/08/21 00:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 00:27	01/08/21 00:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 00:27	01/08/21 00:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.8	%	70.0-130	1	01/08/21 00:27	01/08/21 00:27	615-59-8FID	
2,5-Dibromotoluene (PID)	83.7	%	70.0-130	1	01/08/21 00:27	01/08/21 00:27	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 13:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 13:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 13:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 13:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 13:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 13:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 13:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 13:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 13:49	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 13:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 13:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 13:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 13:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 13:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 13:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 13:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 13:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 13:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 13:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 13:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

Sample: FB-1-20210104 **Lab ID: 92514598022** Collected: 01/04/21 16:30 Received: 01/04/21 16:40 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		01/05/21 13:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 13:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 13:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 13:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 13:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 13:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 13:49	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 13:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 13:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 13:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 13:49	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 13:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 13:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 13:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 13:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 13:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 13:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 13:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 13:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 13:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 13:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 13:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 13:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 13:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/05/21 13:49	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/05/21 13:49	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

Sample: Trip Blank **Lab ID: 92514598023** Collected: 01/04/21 00:00 Received: 01/04/21 16:40 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		01/05/21 13:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 13:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 13:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 13:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 13:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 13:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 13:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 13:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 13:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 13:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 13:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 13:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 13:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 13:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 13:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 13:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 13:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 13:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 13:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 13:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 13:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 13:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 13:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 13:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 13:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 13:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 13:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 13:31	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 13:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 13:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

Sample: Trip Blank **Lab ID: 92514598023** Collected: 01/04/21 00:00 Received: 01/04/21 16:40 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		01/05/21 13:31	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 13:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 13:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 13:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 13:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 13:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 13:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 13:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 13:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 13:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 13:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 13:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 13:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 13:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/05/21 13:31	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/05/21 13:31	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/05/21 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 (1/4/21)
Pace Project No.: 92514598

QC Batch: 1601656 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514598002, 92514598004, 92514598005, 92514598006, 92514598007, 92514598008, 92514598009, 92514598010, 92514598011, 92514598012

METHOD BLANK: R3610431-1 Matrix: Water

Associated Lab Samples: 92514598002, 92514598004, 92514598005, 92514598006, 92514598007, 92514598008, 92514598009, 92514598010, 92514598011, 92514598012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/06/21 12:58	
Aliphatic (C09-C12)	ug/L	ND	100	01/06/21 12:58	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/06/21 12:58	
Total VPH	ug/L	ND	100	01/06/21 12:58	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	01/06/21 12:58	
2,5-Dibromotoluene (PID)	%	97.6	70.0-130	01/06/21 12:58	

LABORATORY CONTROL SAMPLE & LCSD: R3610431-2 R3610431-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1380	1380	115	115	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1470	1470	105	105	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	252	257	126	129	70.0-130	1.96	25	
Total VPH	ug/L	2800	3100	3110	111	111	70.0-130	0.322	25	
2,5-Dibromotoluene (FID)	%				100	109	70.0-130			
2,5-Dibromotoluene (PID)	%				108	118	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

QC Batch: 1602050
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92514598013, 92514598014, 92514598015, 92514598016, 92514598017, 92514598018, 92514598019, 92514598020, 92514598021, 92514598022

METHOD BLANK: R3610884-3 Matrix: Water
Associated Lab Samples: 92514598013, 92514598014, 92514598015, 92514598016, 92514598017, 92514598018, 92514598019, 92514598020, 92514598021, 92514598022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 23:53	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 23:53	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 23:53	
Total VPH	ug/L	ND	100	01/07/21 23:53	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/07/21 23:53	
2,5-Dibromotoluene (PID)	%	78.4	70.0-130	01/07/21 23:53	

LABORATORY CONTROL SAMPLE & LCSD: R3610884-1 R3610884-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1240	103	103	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1460	1460	104	104	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	183	185	91.5	92.5	70.0-130	1.09	25	
Total VPH	ug/L	2800	2880	2890	103	103	70.0-130	0.347	25	
2,5-Dibromotoluene (FID)	%				103	98.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.3	88.2	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

QC Batch: 1602057
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92514598001, 92514598003

METHOD BLANK: R3610581-3 Matrix: Water
Associated Lab Samples: 92514598001, 92514598003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 02:30	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 02:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 02:30	
Total VPH	ug/L	ND	100	01/07/21 02:30	
2,5-Dibromotoluene (FID)	%	91.2	70.0-130	01/07/21 02:30	
2,5-Dibromotoluene (PID)	%	82.9	70.0-130	01/07/21 02:30	

LABORATORY CONTROL SAMPLE & LCSD: R3610581-1 R3610581-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1320	1250	110	104	70.0-130	5.45	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1530	116	109	70.0-130	5.71	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	208	198	104	99.0	70.0-130	4.93	25	
Total VPH	ug/L	2800	3150	2980	113	106	70.0-130	5.55	25	
2,5-Dibromotoluene (FID)	%				94.8	103	70.0-130			
2,5-Dibromotoluene (PID)	%				87.9	96.2	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

QC Batch: 591102 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514598001, 92514598002, 92514598003

METHOD BLANK: 3120767 Matrix: Water
Associated Lab Samples: 92514598001, 92514598002, 92514598003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 13:11	

LABORATORY CONTROL SAMPLE: 3120768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	477	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120769 3120770

Parameter	Units	92513682011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	486	473	97	94	75-125	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

QC Batch: 591103 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92514598004, 92514598005, 92514598006, 92514598007, 92514598008, 92514598009, 92514598010, 92514598011, 92514598012, 92514598013, 92514598014, 92514598015, 92514598016, 92514598017, 92514598018, 92514598019, 92514598020, 92514598021

METHOD BLANK: 3120771 — Matrix: Water

Associated Lab Samples: 92514598004, 92514598005, 92514598006, 92514598007, 92514598008, 92514598009, 92514598010, 92514598011, 92514598012, 92514598013, 92514598014, 92514598015, 92514598016, 92514598017, 92514598018, 92514598019, 92514598020, 92514598021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/08/21 12:52	

LABORATORY CONTROL SAMPLE: 3120772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120773 3120774

Parameter	Units	92514598004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	9.7	500	500	500	500	98	98	75-125	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

QC Batch: 590685
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514598001, 92514598002, 92514598003, 92514598004, 92514598005, 92514598006, 92514598007, 92514598008

METHOD BLANK: 3118480
Matrix: Water
Associated Lab Samples: 92514598001, 92514598002, 92514598003, 92514598004, 92514598005, 92514598006, 92514598007, 92514598008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 12:58	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 12:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 12:58	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 12:58	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 12:58	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 12:58	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 12:58	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 12:58	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 12:58	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 12:58	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 12:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 12:58	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 12:58	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:58	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 12:58	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 12:58	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 12:58	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:58	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 12:58	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:58	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 12:58	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 12:58	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 12:58	
Benzene	ug/L	ND	0.50	01/05/21 12:58	
Bromobenzene	ug/L	ND	0.50	01/05/21 12:58	
Bromochloromethane	ug/L	ND	0.50	01/05/21 12:58	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 12:58	
Bromoform	ug/L	ND	0.50	01/05/21 12:58	
Bromomethane	ug/L	ND	5.0	01/05/21 12:58	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 12:58	
Chlorobenzene	ug/L	ND	0.50	01/05/21 12:58	
Chloroethane	ug/L	ND	1.0	01/05/21 12:58	
Chloroform	ug/L	ND	0.50	01/05/21 12:58	
Chloromethane	ug/L	ND	1.0	01/05/21 12:58	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 12:58	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 12:58	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 12:58	
Dibromomethane	ug/L	ND	0.50	01/05/21 12:58	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 12:58	

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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 (1/4/21)
Pace Project No.: 92514598

METHOD BLANK: 3118480 Matrix: Water
Associated Lab Samples: 92514598001, 92514598002, 92514598003, 92514598004, 92514598005, 92514598006, 92514598007, 92514598008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	01/05/21 12:58	
Ethylbenzene	ug/L	ND	0.50	01/05/21 12:58	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 12:58	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 12:58	
m&p-Xylene	ug/L	ND	1.0	01/05/21 12:58	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 12:58	
Methylene Chloride	ug/L	ND	2.0	01/05/21 12:58	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 12:58	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 12:58	
Naphthalene	ug/L	ND	2.0	01/05/21 12:58	
o-Xylene	ug/L	ND	0.50	01/05/21 12:58	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 12:58	
Styrene	ug/L	ND	0.50	01/05/21 12:58	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 12:58	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 12:58	
Toluene	ug/L	ND	0.50	01/05/21 12:58	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 12:58	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 12:58	
Trichloroethene	ug/L	ND	0.50	01/05/21 12:58	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 12:58	
Vinyl chloride	ug/L	ND	1.0	01/05/21 12:58	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 12:58	
4-Bromofluorobenzene (S)	%	98	70-130	01/05/21 12:58	
Toluene-d8 (S)	%	102	70-130	01/05/21 12:58	

LABORATORY CONTROL SAMPLE: 3118481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	56.7	113	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	60-140	
1,1,2-Trichloroethane	ug/L	50	58.6	117	60-140	
1,1-Dichloroethane	ug/L	50	58.8	118	60-140	
1,1-Dichloroethene	ug/L	50	55.8	112	60-140	
1,1-Dichloropropene	ug/L	50	58.8	118	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	49.4	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	55.1	110	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.1	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.0	116	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	60-140	
1,2-Dichlorobenzene	ug/L	50	54.1	108	60-140	
1,2-Dichloroethane	ug/L	50	49.2	98	60-140	

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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 (1/4/21)
Pace Project No.: 92514598

LABORATORY CONTROL SAMPLE: 3118481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	57.4	115	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.3	103	60-140	
1,3-Dichlorobenzene	ug/L	50	53.8	108	60-140	
1,3-Dichloropropane	ug/L	50	51.9	104	60-140	
1,4-Dichlorobenzene	ug/L	50	53.0	106	60-140	
2,2-Dichloropropane	ug/L	50	58.4	117	60-140	
2-Chlorotoluene	ug/L	50	52.8	106	60-140	
4-Chlorotoluene	ug/L	50	51.8	104	60-140	
Benzene	ug/L	50	56.2	112	60-140	
Bromobenzene	ug/L	50	52.8	106	60-140	
Bromochloromethane	ug/L	50	64.1	128	60-140	
Bromodichloromethane	ug/L	50	54.7	109	60-140	
Bromoform	ug/L	50	54.0	108	60-140	
Bromomethane	ug/L	50	44.9	90	60-140	
Carbon tetrachloride	ug/L	50	51.2	102	60-140	
Chlorobenzene	ug/L	50	51.4	103	60-140	
Chloroethane	ug/L	50	33.9	68	60-140	
Chloroform	ug/L	50	56.2	112	60-140	
Chloromethane	ug/L	50	46.1	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	56.0	112	60-140	
cis-1,3-Dichloropropene	ug/L	50	60.1	120	60-140	
Dibromochloromethane	ug/L	50	53.0	106	60-140	
Dibromomethane	ug/L	50	62.5	125	60-140	
Dichlorodifluoromethane	ug/L	50	45.0	90	60-140	
Diisopropyl ether	ug/L	50	53.5	107	60-140	
Ethylbenzene	ug/L	50	49.9	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	53.3	107	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	56.8	114	60-140	
Methylene Chloride	ug/L	50	56.8	114	60-140	
n-Butylbenzene	ug/L	50	51.4	103	60-140	
n-Propylbenzene	ug/L	50	50.6	101	60-140	
Naphthalene	ug/L	50	55.7	111	60-140	
o-Xylene	ug/L	50	51.5	103	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	42.8	86	60-140	
Tetrachloroethene	ug/L	50	51.7	103	60-140	
Toluene	ug/L	50	56.5	113	60-140	
trans-1,2-Dichloroethene	ug/L	50	58.1	116	60-140	
trans-1,3-Dichloropropene	ug/L	50	57.7	115	60-140	
Trichloroethene	ug/L	50	57.4	115	60-140	
Trichlorofluoromethane	ug/L	50	45.3	91	60-140	
Vinyl chloride	ug/L	50	50.8	102	60-140	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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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 (1/4/21)
Pace Project No.: 92514598

LABORATORY CONTROL SAMPLE: 3118481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118482 3118483

Parameter	Units	92514450006 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	<21.1	1000	1000	1080	1070	108	107	60-140	0	
1,1,1-Trichloroethane	ug/L	<13.9	1000	1000	1270	1280	127	128	60-140	0	
1,1,2,2-Tetrachloroethane	ug/L	<9.6	1000	1000	1030	1060	103	106	60-140	3	
1,1,2-Trichloroethane	ug/L	<11.6	1000	1000	1260	1270	126	127	60-140	1	
1,1-Dichloroethane	ug/L	<12.2	1000	1000	1290	1320	129	132	60-140	2	
1,1-Dichloroethene	ug/L	<10.9	1000	1000	1280	1290	128	129	60-140	0	
1,1-Dichloropropene	ug/L	<17.4	1000	1000	1310	1330	131	133	60-140	2	
1,2,3-Trichlorobenzene	ug/L	<39.0	1000	1000	963	1040	96	104	60-140	8	
1,2,3-Trichloropropane	ug/L	<13.6	1000	1000	1000	1010	100	101	60-140	1	
1,2,4-Trichlorobenzene	ug/L	<21.8	1000	1000	1000	1030	100	103	60-140	3	
1,2,4-Trimethylbenzene	ug/L	315	1000	1000	1390	1340	108	102	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	<19.2	1000	1000	1100	1140	110	114	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<11.6	1000	1000	1100	1090	110	109	60-140	0	
1,2-Dichlorobenzene	ug/L	<12.0	1000	1000	1080	1070	108	107	60-140	1	
1,2-Dichloroethane	ug/L	<13.2	1000	1000	1060	1100	106	110	60-140	4	
1,2-Dichloropropane	ug/L	<9.2	1000	1000	1220	1260	122	126	60-140	4	
1,3,5-Trimethylbenzene	ug/L	<11.4	1000	1000	1190	1170	119	117	60-140	2	
1,3-Dichlorobenzene	ug/L	<12.5	1000	1000	1080	1060	108	106	60-140	2	
1,3-Dichloropropane	ug/L	<17.0	1000	1000	1080	1070	108	107	60-140	1	
1,4-Dichlorobenzene	ug/L	<12.4	1000	1000	1050	1030	105	103	60-140	1	
2,2-Dichloropropane	ug/L	<14.0	1000	1000	1110	1120	111	112	60-140	1	
2-Chlorotoluene	ug/L	<10.4	1000	1000	1090	1060	109	106	60-140	3	
4-Chlorotoluene	ug/L	<10.3	1000	1000	1050	1020	105	102	60-140	3	
Benzene	ug/L	942	1000	1000	2170	2220	123	128	60-140	2	
Bromobenzene	ug/L	<10.8	1000	1000	1090	1070	109	107	60-140	3	
Bromochloromethane	ug/L	<12.9	1000	1000	1360	1370	136	137	60-140	1	
Bromodichloromethane	ug/L	<9.2	1000	1000	1160	1160	116	116	60-140	0	
Bromoform	ug/L	<20.2	1000	1000	1050	1060	105	106	60-140	1	
Bromomethane	ug/L	<86.0	1000	1000	986	1110	99	111	60-140	12	
Carbon tetrachloride	ug/L	<11.6	1000	1000	1200	1190	120	119	60-140	1	
Chlorobenzene	ug/L	<11.2	1000	1000	1090	1090	109	109	60-140	0	
Chloroethane	ug/L	<29.2	1000	1000	1040	989	104	99	60-140	5	
Chloroform	ug/L	<17.6	1000	1000	1240	1250	124	125	60-140	1	
Chloromethane	ug/L	<20.8	1000	1000	941	993	94	99	60-140	5	
cis-1,2-Dichloroethene	ug/L	<10.4	1000	1000	1240	1240	124	124	60-140	0	
cis-1,3-Dichloropropene	ug/L	<17.8	1000	1000	1230	1250	123	125	60-140	1	
Dibromochloromethane	ug/L	<20.1	1000	1000	1080	1070	108	107	60-140	0	
Dibromomethane	ug/L	<15.5	1000	1000	1280	1330	128	133	60-140	4	
Dichlorodifluoromethane	ug/L	<14.2	1000	1000	1060	1070	106	107	60-140	0	

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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 (1/4/21)
Pace Project No.: 92514598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118482 3118483

Parameter	Units	92514450006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diisopropyl ether	ug/L	<16.7	1000	1000	1160	1160	116	116	60-140	0	
Ethylbenzene	ug/L	233	1000	1000	1300	1290	107	106	60-140	1	
Hexachloro-1,3-butadiene	ug/L	<60.0	1000	1000	1040	1080	104	108	60-140	4	
Isopropylbenzene (Cumene)	ug/L	<11.9	1000	1000	1090	1090	109	109	60-140	0	
m&p-Xylene	ug/L	1090	2000	2000	3220	3190	106	105	60-140	1	
Methyl-tert-butyl ether	ug/L	<22.2	1000	1000	1200	1200	120	120	60-140	0	
Methylene Chloride	ug/L	<75.0	1000	1000	1270	1250	127	125	60-140	1	
n-Butylbenzene	ug/L	<17.6	1000	1000	1020	1020	102	102	60-140	0	
n-Propylbenzene	ug/L	<12.0	1000	1000	1070	1050	107	105	60-140	2	
Naphthalene	ug/L	289	1000	1000	1220	1320	93	103	60-140	8	
o-Xylene	ug/L	1070	1000	1000	2160	2140	109	107	60-140	1	
sec-Butylbenzene	ug/L	<12.3	1000	1000	1070	1060	107	106	60-140	1	
Styrene	ug/L	<12.8	1000	1000	1090	1100	109	110	60-140	1	
tert-Butylbenzene	ug/L	<12.5	1000	1000	919	901	92	90	60-140	2	
Tetrachloroethene	ug/L	<11.6	1000	1000	1090	1090	109	109	60-140	0	
Toluene	ug/L	6410	1000	1000	7520	7650	112	124	60-140	2	
trans-1,2-Dichloroethene	ug/L	<12.8	1000	1000	1290	1290	129	129	60-140	1	
trans-1,3-Dichloropropene	ug/L	<19.7	1000	1000	1180	1190	118	119	60-140	1	
Trichloroethene	ug/L	<11.6	1000	1000	1280	1300	128	130	60-140	1	
Trichlorofluoromethane	ug/L	<16.8	1000	1000	1170	1180	117	118	60-140	1	
Vinyl chloride	ug/L	<20.4	1000	1000	1160	1170	116	117	60-140	0	
1,2-Dichloroethane-d4 (S)	%						94	96	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						100	103	70-130		

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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 (1/4/21)
Pace Project No.: 92514598

QC Batch: 590687
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514598009, 92514598010, 92514598011, 92514598012, 92514598013, 92514598014, 92514598015, 92514598016, 92514598017, 92514598018, 92514598019, 92514598020, 92514598021, 92514598022, 92514598023

METHOD BLANK: 3118489
Matrix: Water
Associated Lab Samples: 92514598009, 92514598010, 92514598011, 92514598012, 92514598013, 92514598014, 92514598015, 92514598016, 92514598017, 92514598018, 92514598019, 92514598020, 92514598021, 92514598022, 92514598023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 12:38	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 12:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 12:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 12:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 12:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 12:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 12:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 12:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 12:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 12:38	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 12:38	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 12:38	
Benzene	ug/L	ND	0.50	01/05/21 12:38	
Bromobenzene	ug/L	ND	0.50	01/05/21 12:38	
Bromochloromethane	ug/L	ND	0.50	01/05/21 12:38	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 12:38	
Bromoform	ug/L	ND	0.50	01/05/21 12:38	
Bromomethane	ug/L	ND	5.0	01/05/21 12:38	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 12:38	
Chlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
Chloroethane	ug/L	ND	1.0	01/05/21 12:38	
Chloroform	ug/L	ND	0.50	01/05/21 12:38	
Chloromethane	ug/L	ND	1.0	01/05/21 12:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 12:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 12:38	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 12:38	

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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 (1/4/21)
Pace Project No.: 92514598

METHOD BLANK: 3118489 Matrix: Water

Associated Lab Samples: 92514598009, 92514598010, 92514598011, 92514598012, 92514598013, 92514598014, 92514598015, 92514598016, 92514598017, 92514598018, 92514598019, 92514598020, 92514598021, 92514598022, 92514598023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	0.50	01/05/21 12:38	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 12:38	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 12:38	
Ethylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 12:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 12:38	
m&p-Xylene	ug/L	ND	1.0	01/05/21 12:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 12:38	
Methylene Chloride	ug/L	ND	2.0	01/05/21 12:38	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 12:38	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Naphthalene	ug/L	ND	2.0	01/05/21 12:38	
o-Xylene	ug/L	ND	0.50	01/05/21 12:38	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Styrene	ug/L	ND	0.50	01/05/21 12:38	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 12:38	
Toluene	ug/L	ND	0.50	01/05/21 12:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 12:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 12:38	
Trichloroethene	ug/L	ND	0.50	01/05/21 12:38	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 12:38	
Vinyl chloride	ug/L	ND	1.0	01/05/21 12:38	
1,2-Dichloroethane-d4 (S)	%	101	70-130	01/05/21 12:38	
4-Bromofluorobenzene (S)	%	99	70-130	01/05/21 12:38	
Toluene-d8 (S)	%	100	70-130	01/05/21 12:38	

LABORATORY CONTROL SAMPLE: 3118490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	60-140	
1,1,1-Trichloroethane	ug/L	50	49.9	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	60-140	
1,1,2-Trichloroethane	ug/L	50	50.8	102	60-140	
1,1-Dichloroethane	ug/L	50	49.4	99	60-140	
1,1-Dichloroethene	ug/L	50	49.7	99	60-140	
1,1-Dichloropropene	ug/L	50	50.3	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.9	98	60-140	
1,2,3-Trichloropropane	ug/L	50	48.7	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.9	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.1	104	60-140	

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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 (1/4/21)
Pace Project No.: 92514598

LABORATORY CONTROL SAMPLE: 3118490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	50.9	102	60-140	
1,2-Dichloroethane	ug/L	50	47.8	96	60-140	
1,2-Dichloropropane	ug/L	50	49.4	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.0	102	60-140	
1,3-Dichlorobenzene	ug/L	50	50.0	100	60-140	
1,3-Dichloropropane	ug/L	50	51.1	102	60-140	
1,4-Dichlorobenzene	ug/L	50	49.9	100	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	49.5	99	60-140	
4-Chlorotoluene	ug/L	50	49.3	99	60-140	
Benzene	ug/L	50	48.5	97	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.1	104	60-140	
Bromodichloromethane	ug/L	50	49.2	98	60-140	
Bromoform	ug/L	50	54.7	109	60-140	
Bromomethane	ug/L	50	48.1	96	60-140	
Carbon tetrachloride	ug/L	50	50.4	101	60-140	
Chlorobenzene	ug/L	50	49.5	99	60-140	
Chloroethane	ug/L	50	39.7	79	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	43.0	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Dibromochloromethane	ug/L	50	53.9	108	60-140	
Dibromomethane	ug/L	50	50.0	100	60-140	
Dichlorodifluoromethane	ug/L	50	35.0	70	60-140	
Diisopropyl ether	ug/L	50	48.3	97	60-140	
Ethylbenzene	ug/L	50	47.2	94	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.8	102	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.7	97	60-140	
m&p-Xylene	ug/L	100	95.2	95	60-140	
Methyl-tert-butyl ether	ug/L	50	51.7	103	60-140	
Methylene Chloride	ug/L	50	44.8	90	60-140	
n-Butylbenzene	ug/L	50	52.3	105	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	52.8	106	60-140	
o-Xylene	ug/L	50	48.4	97	60-140	
sec-Butylbenzene	ug/L	50	48.6	97	60-140	
Styrene	ug/L	50	49.3	99	60-140	
tert-Butylbenzene	ug/L	50	40.8	82	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.4	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.6	105	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	40.0	80	60-140	

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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 (1/4/21)
Pace Project No.: 92514598

LABORATORY CONTROL SAMPLE: 3118490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	40.3	81	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118491 3118492

Parameter	Units	92514598016 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	21.7	20.9	109	104	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.2	21.4	106	107	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.7	19.1	103	96	60-140	8	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	21.2	108	106	60-140	2	
1,1-Dichloroethane	ug/L	ND	20	20	20.8	20.8	104	104	60-140	0	
1,1-Dichloroethene	ug/L	ND	20	20	22.2	22.4	111	112	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	21.8	21.5	109	108	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	19.1	100	95	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.7	19.5	103	97	60-140	6	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.7	19.2	104	96	60-140	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.3	20.8	107	104	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.7	19.9	98	99	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.7	20.8	108	104	60-140	4	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.0	20.8	105	104	60-140	1	
1,2-Dichloroethane	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2	
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.7	108	109	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.1	20.3	105	102	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.1	21.2	111	106	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	22.2	21.3	111	107	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.6	20.4	108	102	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	22.1	21.9	110	109	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	21.4	21.5	107	108	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	21.1	20.8	106	104	60-140	2	
Benzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2	
Bromobenzene	ug/L	ND	20	20	21.2	20.0	106	100	60-140	6	
Bromochloromethane	ug/L	ND	20	20	21.3	21.5	106	107	60-140	1	
Bromodichloromethane	ug/L	ND	20	20	20.1	21.4	101	107	60-140	6	
Bromoform	ug/L	ND	20	20	21.3	20.0	107	100	60-140	6	
Bromomethane	ug/L	ND	20	20	19.3	18.8	97	94	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	22.4	22.5	112	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	21.7	21.2	109	106	60-140	3	
Chloroethane	ug/L	ND	20	20	18.0	18.5	90	92	60-140	2	
Chloroform	ug/L	ND	20	20	21.4	20.0	107	100	60-140	6	
Chloromethane	ug/L	ND	20	20	17.8	17.3	89	87	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.6	20.9	103	105	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.4	21.6	107	108	60-140	1	

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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 (1/4/21)
Pace Project No.: 92514598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118491 3118492

Parameter	Units	92514598016 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	21.5	21.1	107	106	60-140	2	
Dibromomethane	ug/L	ND	20	20	21.0	21.5	105	107	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	16.9	84	84	60-140	0	
Diisopropyl ether	ug/L	ND	20	20	19.4	19.8	97	99	60-140	2	
Ethylbenzene	ug/L	ND	20	20	21.8	20.6	109	103	60-140	6	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.7	22.5	119	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.9	21.2	110	106	60-140	4	
m&p-Xylene	ug/L	ND	40	40	44.0	41.3	110	103	60-140	6	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1	
Methylene Chloride	ug/L	ND	20	20	19.8	20.2	99	101	60-140	2	
n-Butylbenzene	ug/L	ND	20	20	22.4	21.6	112	108	60-140	4	
n-Propylbenzene	ug/L	ND	20	20	21.4	20.8	107	104	60-140	3	
Naphthalene	ug/L	ND	20	20	20.2	20.1	101	101	60-140	0	
o-Xylene	ug/L	ND	20	20	22.1	21.2	111	106	60-140	4	
sec-Butylbenzene	ug/L	ND	20	20	21.6	21.0	108	105	60-140	3	
Styrene	ug/L	ND	20	20	21.9	20.8	109	104	60-140	5	
tert-Butylbenzene	ug/L	ND	20	20	17.7	17.4	89	87	60-140	2	
Tetrachloroethene	ug/L	ND	20	20	21.1	20.1	106	101	60-140	5	
Toluene	ug/L	ND	20	20	20.8	20.8	104	104	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.7	21.1	109	105	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.4	22.2	107	111	60-140	3	
Trichloroethene	ug/L	ND	20	20	22.0	21.7	110	109	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	19.1	19.3	95	96	60-140	1	
Vinyl chloride	ug/L	ND	20	20	17.7	17.1	88	85	60-140	3	
1,2-Dichloroethane-d4 (S)	%						96	94	70-130		
4-Bromofluorobenzene (S)	%						103	101	70-130		
Toluene-d8 (S)	%						97	96	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
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(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514598001	**MW-35**	MADEPV	1602057	MADEP VPH	1602057
92514598002	**MW-36**	MADEPV	1601656	MADEP VPH	1601656
92514598003	**MW-15**	MADEPV	1602057	MADEP VPH	1602057
92514598004	**MW-37**	MADEPV	1601656	MADEP VPH	1601656
92514598005	**MW-12**	MADEPV	1601656	MADEP VPH	1601656
92514598006	**MW-32**	MADEPV	1601656	MADEP VPH	1601656
92514598007	**MW-33**	MADEPV	1601656	MADEP VPH	1601656
92514598008	**MW-34**	MADEPV	1601656	MADEP VPH	1601656
92514598009	**MW-2**	MADEPV	1601656	MADEP VPH	1601656
92514598010	**MW-4**	MADEPV	1601656	MADEP VPH	1601656
92514598011	**MW-6**	MADEPV	1601656	MADEP VPH	1601656
92514598012	**MW-20**	MADEPV	1601656	MADEP VPH	1601656
92514598013	**MW-25**	MADEPV	1602050	MADEP VPH	1602050
92514598014	**MW-9**	MADEPV	1602050	MADEP VPH	1602050
92514598015	**MW-30**	MADEPV	1602050	MADEP VPH	1602050
92514598016	**MW-1**	MADEPV	1602050	MADEP VPH	1602050
92514598017	**MW-27**	MADEPV	1602050	MADEP VPH	1602050
92514598018	**MW-05**	MADEPV	1602050	MADEP VPH	1602050
92514598019	**MW-7**	MADEPV	1602050	MADEP VPH	1602050
92514598020	**MW-3**	MADEPV	1602050	MADEP VPH	1602050
92514598021	**DUP-1-20210104**	MADEPV	1602050	MADEP VPH	1602050
92514598022	**FB-1-20210104**	MADEPV	1602050	MADEP VPH	1602050
92514598001	**MW-35**	EPA 3010A	591102	EPA 6010D	591120
92514598002	**MW-36**	EPA 3010A	591102	EPA 6010D	591120
92514598003	**MW-15**	EPA 3010A	591102	EPA 6010D	591120
92514598004	**MW-37**	EPA 3010A	591103	EPA 6010D	591119
92514598005	**MW-12**	EPA 3010A	591103	EPA 6010D	591119
92514598006	**MW-32**	EPA 3010A	591103	EPA 6010D	591119
92514598007	**MW-33**	EPA 3010A	591103	EPA 6010D	591119
92514598008	**MW-34**	EPA 3010A	591103	EPA 6010D	591119
92514598009	**MW-2**	EPA 3010A	591103	EPA 6010D	591119
92514598010	**MW-4**	EPA 3010A	591103	EPA 6010D	591119
92514598011	**MW-6**	EPA 3010A	591103	EPA 6010D	591119
92514598012	**MW-20**	EPA 3010A	591103	EPA 6010D	591119
92514598013	**MW-25**	EPA 3010A	591103	EPA 6010D	591119
92514598014	**MW-9**	EPA 3010A	591103	EPA 6010D	591119
92514598015	**MW-30**	EPA 3010A	591103	EPA 6010D	591119
92514598016	**MW-1**	EPA 3010A	591103	EPA 6010D	591119
92514598017	**MW-27**	EPA 3010A	591103	EPA 6010D	591119
92514598018	**MW-05**	EPA 3010A	591103	EPA 6010D	591119
92514598019	**MW-7**	EPA 3010A	591103	EPA 6010D	591119
92514598020	**MW-3**	EPA 3010A	591103	EPA 6010D	591119
92514598021	**DUP-1-20210104**	EPA 3010A	591103	EPA 6010D	591119
92514598001	**MW-35**	SM 6200B	590685		
92514598002	**MW-36**	SM 6200B	590685		

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (1/4/21)
Pace Project No.: 92514598

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514598003	**MW-15**	SM 6200B	590685		
92514598004	**MW-37**	SM 6200B	590685		
92514598005	**MW-12**	SM 6200B	590685		
92514598006	**MW-32**	SM 6200B	590685		
92514598007	**MW-33**	SM 6200B	590685		
92514598008	**MW-34**	SM 6200B	590685		
92514598009	**MW-2**	SM 6200B	590687		
92514598010	**MW-4**	SM 6200B	590687		
92514598011	**MW-6**	SM 6200B	590687		
92514598012	**MW-20**	SM 6200B	590687		
92514598013	**MW-25**	SM 6200B	590687		
92514598014	**MW-9**	SM 6200B	590687		
92514598015	**MW-30**	SM 6200B	590687		
92514598016	**MW-1**	SM 6200B	590687		
92514598017	**MW-27**	SM 6200B	590687		
92514598018	**MW-05**	SM 6200B	590687		
92514598019	**MW-7**	SM 6200B	590687		
92514598020	**MW-3**	SM 6200B	590687		
92514598021	**DUP-1-20210104**	SM 6200B	590687		
92514598022	**FB-1-20210104**	SM 6200B	590687		
92514598023	**Trip Blank**	SM 6200B	590687		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92514598

92514598

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 1/4/21 HK

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: 5.1, 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): 5.0, 3.8

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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# : 92514598**

PM: NMG Due Date: 01/11/21

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																7													
2																7													
3																7													
4																7													
5																7													
6																7													
7																7													
8																7													
9																7													
10																7													
11																7													
12																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 #

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																7													
4																7													
5																7													
6																7													
7																7													
8																7													
9																7													
10																7													
11																4													
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	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	92514598
1	MW-35	WT	G	1/4/21	0845				6			X	X						X	X	X			001
2	MW-36				0920																			002
3	MW-15				0930																			003
4	MW-37				0950																			004
5	MW-12				1025																			005
6	MW-32				1030																			006
7	MW-33				1100																			007
8	MW-34				1120																			008
9	MW-2				1126																			009
10	MW-4				1146																			010
11	MW-6				1230																			011
12	MW-20				1350																			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Ben Weiser GS	010421	1640	HD PACE HVL	1/4/21	1640	S.O 3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Weiser

SIGNATURE of SAMPLER:

DATE Signed: 010421

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical
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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	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	92514598
1	MW-25	WT	G	1/4/21	1415				8	X		X	X					X	X	X			013
2	MW-9				1310																		014
3	MW-30				1345																		015
4	MW-1				1417																		016
5	MW-27				1500																		017
6	MW-05				1511																		018
7	MW-7				1525																		019
8	MW-3				1550																		020
9	Dup-1-20210104				—																		021
10	FB-1-20210104				1630																		022
11	Trip Blank								LAB Provided												X		4 bottles 023
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Ben Welsebs Aecom	01/04/21	1640	HD PACE HVL	1/4/21	1640	5.8 5.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Welsebs

SIGNATURE of SAMPLER: [signature] DATE Signed: 01/04/21

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

January 07, 2021

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

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace National - Mt. Juliet
- 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.: 92514602

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.: 92514602

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514602001	**MW-61D(96.5-103.5)**	MADEP VPH	JHH	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514602002	**DUP-1**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514602003	**EB-1**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514602004	**FB-1**	MADEP VPH	JHH	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92514602005	**Trip Blank**	SM 6200B	PM1	63	PASI-C

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

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.: 92514602

Sample: MW-61D(96.5-103.5) **Lab ID: 92514602001** Collected: 01/04/21 16:05 Received: 01/04/21 17:40 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	01/06/21 17:41	01/06/21 17:41		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/06/21 17:41	01/06/21 17:41		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/06/21 17:41	01/06/21 17:41	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/06/21 17:41	01/06/21 17:41	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.3	%	70.0-130	1	01/06/21 17:41	01/06/21 17:41	615-59-8FID	
2,5-Dibromotoluene (PID)	92.0	%	70.0-130	1	01/06/21 17:41	01/06/21 17:41	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**8.3**	ug/L	5.0	1	01/06/21 00:59	01/06/21 12:23	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 18:34	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 18:34	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 18:34	74-97-5	
Bromodichloromethane	**2.8**	ug/L	0.50	1		01/05/21 18:34	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 18:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 18:34	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:34	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:34	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:34	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 18:34	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 18:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 18:34	75-00-3	
Chloroform	**11.3**	ug/L	0.50	1		01/05/21 18:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 18:34	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:34	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 18:34	96-12-8	
Dibromochloromethane	**0.65**	ug/L	0.50	1		01/05/21 18:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 18:34	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 18:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 18:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:34	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: 2020-LI-2448 Incident
Pace Project No.: 92514602

Sample: MW-61D(96.5-103.5) **Lab ID: 92514602001** Collected: 01/04/21 16:05 Received: 01/04/21 17:40 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		01/05/21 18:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:34	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 18:34	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 18:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 18:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 18:34	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 18:34	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 18:34	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 18:34	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 18:34	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 18:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:34	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 18:34	127-18-4	
Toluene	**2.0**	ug/L	0.50	1		01/05/21 18:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:34	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 18:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 18:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 18:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:34	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 18:34	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 18:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 18:34	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 18:34	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/05/21 18:34	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/05/21 18:34	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: 2020-LI-2448 Incident
Pace Project No.: 92514602

Sample: DUP-1 **Lab ID: 92514602002** Collected: 01/04/21 00:00 Received: 01/04/21 17:40 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	01/06/21 18:23	01/06/21 18:23		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/06/21 18:23	01/06/21 18:23		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/06/21 18:23	01/06/21 18:23	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/06/21 18:23	01/06/21 18:23	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.4	%	70.0-130	1	01/06/21 18:23	01/06/21 18:23	615-59-8FID	
2,5-Dibromotoluene (PID)	98.1	%	70.0-130	1	01/06/21 18:23	01/06/21 18:23	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**12.0**	ug/L	5.0	1	01/06/21 00:59	01/06/21 17:26	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 18:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 18:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 18:52	74-97-5	
Bromodichloromethane	**3.0**	ug/L	0.50	1		01/05/21 18:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 18:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 18:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 18:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 18:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 18:52	108-90-7	
Chloroethane	**1.1**	ug/L	1.0	1		01/05/21 18:52	75-00-3	
Chloroform	**11.4**	ug/L	0.50	1		01/05/21 18:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 18:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 18:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 18:52	96-12-8	
Dibromochloromethane	**0.55**	ug/L	0.50	1		01/05/21 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 18:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 18:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 18:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 18:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 18:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 18:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 18:52	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: 2020-LI-2448 Incident
Pace Project No.: 92514602

Sample: DUP-1 **Lab ID: 92514602002** Collected: 01/04/21 00:00 Received: 01/04/21 17:40 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		01/05/21 18:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 18:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 18:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 18:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 18:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 18:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 18:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 18:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 18:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 18:52	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 18:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 18:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 18:52	127-18-4	
Toluene	**1.5**	ug/L	0.50	1		01/05/21 18:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 18:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 18:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 18:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 18:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 18:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 18:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 18:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 18:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 18:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/05/21 18:52	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/05/21 18:52	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/05/21 18:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

Sample: EB-1 **Lab ID: 92514602003** Collected: 01/04/21 11:00 Received: 01/04/21 17:40 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	01/07/21 11:04	01/07/21 11:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 11:04	01/07/21 11:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 11:04	01/07/21 11:04	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 11:04	01/07/21 11:04	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/07/21 11:04	01/07/21 11:04	615-59-8FID	
2,5-Dibromotoluene (PID)	89.7	%	70.0-130	1	01/07/21 11:04	01/07/21 11:04	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	01/06/21 00:59	01/06/21 17:29	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 14:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 14:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 14:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 14:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 14:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 14:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 14:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 14:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 14:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 14:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 14:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 14:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 14:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 14:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 14:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 14:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 14:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 14:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 14:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 14:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:24	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

Sample: EB-1 **Lab ID: 92514602003** Collected: 01/04/21 11:00 Received: 01/04/21 17:40 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		01/05/21 14:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 14:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 14:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 14:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 14:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 14:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 14:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 14:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 14:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 14:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 14:24	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 14:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 14:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 14:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 14:24	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 14:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 14:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 14:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 14:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 14:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 14:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 14:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 14:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 14:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 14:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 14:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 14:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 14:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 14:24	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/05/21 14:24	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/05/21 14:24	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: 2020-LI-2448 Incident
Pace Project No.: 92514602

Sample: FB-1 **Lab ID: 92514602004** Collected: 01/04/21 00:00 Received: 01/04/21 17:40 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	01/06/21 20:11	01/06/21 20:11		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/06/21 20:11	01/06/21 20:11		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/06/21 20:11	01/06/21 20:11	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/06/21 20:11	01/06/21 20:11	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.2	%	70.0-130	1	01/06/21 20:11	01/06/21 20:11	615-59-8FID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	01/06/21 20:11	01/06/21 20:11	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	01/06/21 00:59	01/06/21 12:56	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/05/21 14:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 14:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 14:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 14:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 14:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 14:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 14:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 14:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 14:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 14:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 14:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 14:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 14:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 14:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 14:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 14:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 14:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 14:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 14:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 14:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 14:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 14:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 14:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 14:07	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

Sample: FB-1 **Lab ID: 92514602004** Collected: 01/04/21 00:00 Received: 01/04/21 17:40 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		01/05/21 14:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 14:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 14:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 14:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 14:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 14:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 14:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 14:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 14:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 14:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 14:07	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 14:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 14:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 14:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/05/21 14:07	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 14:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 14:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 14:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 14:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 14:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 14:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 14:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 14:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 14:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 14:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 14:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 14:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 14:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/05/21 14:07	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/05/21 14:07	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/05/21 14:07	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-LI-2448 Incident
Pace Project No.: 92514602

Sample: Trip Blank **Lab ID: 92514602005** Collected: 01/04/21 00:00 Received: 01/04/21 17:40 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		01/05/21 13:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/05/21 13:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/05/21 13:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/05/21 13:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/05/21 13:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/05/21 13:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/05/21 13:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/05/21 13:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/05/21 13:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/05/21 13:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/05/21 13:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/05/21 13:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 13:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/05/21 13:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/05/21 13:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/05/21 13:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/05/21 13:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/05/21 13:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/05/21 13:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/05/21 13:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/05/21 13:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/05/21 13:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/05/21 13:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/05/21 13:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/05/21 13:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/05/21 13:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/05/21 13:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/05/21 13:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/05/21 13:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/05/21 13:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/05/21 13:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/05/21 13:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/05/21 13:13	103-65-1	
Styrene	ND	ug/L	0.50	1		01/05/21 13:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 13:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/05/21 13:13	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 Incident
Pace Project No.: 92514602

Sample: Trip Blank **Lab ID: 92514602005** Collected: 01/04/21 00:00 Received: 01/04/21 17:40 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		01/05/21 13:13	127-18-4	
Toluene	ND	ug/L	0.50	1		01/05/21 13:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 13:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/05/21 13:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/05/21 13:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/05/21 13:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/05/21 13:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/05/21 13:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/05/21 13:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 13:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/05/21 13:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/05/21 13:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/05/21 13:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/05/21 13:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/05/21 13:13	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/05/21 13:13	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/05/21 13:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

QC Batch: 1601656 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92514602001, 92514602002, 92514602004

METHOD BLANK: R3610431-1 Matrix: Water
Associated Lab Samples: 92514602001, 92514602002, 92514602004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/06/21 12:58	
Aliphatic (C09-C12)	ug/L	ND	100	01/06/21 12:58	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/06/21 12:58	
Total VPH	ug/L	ND	100	01/06/21 12:58	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	01/06/21 12:58	
2,5-Dibromotoluene (PID)	%	97.6	70.0-130	01/06/21 12:58	

LABORATORY CONTROL SAMPLE & LCSD: R3610431-2 R3610431-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1380	1380	115	115	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1470	1470	105	105	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	252	257	126	129	70.0-130	1.96	25	
Total VPH	ug/L	2800	3100	3110	111	111	70.0-130	0.322	25	
2,5-Dibromotoluene (FID)	%				100	109	70.0-130			
2,5-Dibromotoluene (PID)	%				108	118	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

QC Batch: 1602057
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514602003

METHOD BLANK: R3610581-3 Matrix: Water
Associated Lab Samples: 92514602003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 02:30	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 02:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 02:30	
Total VPH	ug/L	ND	100	01/07/21 02:30	
2,5-Dibromotoluene (FID)	%	91.2	70.0-130	01/07/21 02:30	
2,5-Dibromotoluene (PID)	%	82.9	70.0-130	01/07/21 02:30	

LABORATORY CONTROL SAMPLE & LCSD: R3610581-1 R3610581-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1320	1250	110	104	70.0-130	5.45	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1530	116	109	70.0-130	5.71	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	208	198	104	99.0	70.0-130	4.93	25	
Total VPH	ug/L	2800	3150	2980	113	106	70.0-130	5.55	25	
2,5-Dibromotoluene (FID)	%				94.8	103	70.0-130			
2,5-Dibromotoluene (PID)	%				87.9	96.2	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

QC Batch: 590827 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514602001, 92514602002, 92514602003, 92514602004

METHOD BLANK: 3119321 Matrix: Water
Associated Lab Samples: 92514602001, 92514602002, 92514602003, 92514602004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/06/21 17:13	

LABORATORY CONTROL SAMPLE: 3119322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	489	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119323 3119324

Parameter	Units	92514602001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	8.3	500	500	499	526	98	104	75-125	5	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92514602

QC Batch: 590687 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514602001, 92514602002, 92514602003, 92514602004, 92514602005

METHOD BLANK: 3118489 Matrix: Water

Associated Lab Samples: 92514602001, 92514602002, 92514602003, 92514602004, 92514602005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 12:38	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 12:38	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 12:38	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 12:38	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 12:38	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 12:38	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 12:38	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 12:38	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 12:38	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 12:38	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 12:38	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 12:38	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 12:38	
Benzene	ug/L	ND	0.50	01/05/21 12:38	
Bromobenzene	ug/L	ND	0.50	01/05/21 12:38	
Bromochloromethane	ug/L	ND	0.50	01/05/21 12:38	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 12:38	
Bromoform	ug/L	ND	0.50	01/05/21 12:38	
Bromomethane	ug/L	ND	5.0	01/05/21 12:38	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 12:38	
Chlorobenzene	ug/L	ND	0.50	01/05/21 12:38	
Chloroethane	ug/L	ND	1.0	01/05/21 12:38	
Chloroform	ug/L	ND	0.50	01/05/21 12:38	
Chloromethane	ug/L	ND	1.0	01/05/21 12:38	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 12:38	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 12:38	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 12:38	
Dibromomethane	ug/L	ND	0.50	01/05/21 12:38	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 12:38	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 12:38	

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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.: 92514602

METHOD BLANK: 3118489 Matrix: Water
Associated Lab Samples: 92514602001, 92514602002, 92514602003, 92514602004, 92514602005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 12:38	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 12:38	
m&p-Xylene	ug/L	ND	1.0	01/05/21 12:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 12:38	
Methylene Chloride	ug/L	ND	2.0	01/05/21 12:38	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 12:38	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Naphthalene	ug/L	ND	2.0	01/05/21 12:38	
o-Xylene	ug/L	ND	0.50	01/05/21 12:38	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Styrene	ug/L	ND	0.50	01/05/21 12:38	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 12:38	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 12:38	
Toluene	ug/L	ND	0.50	01/05/21 12:38	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 12:38	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 12:38	
Trichloroethene	ug/L	ND	0.50	01/05/21 12:38	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 12:38	
Vinyl chloride	ug/L	ND	1.0	01/05/21 12:38	
1,2-Dichloroethane-d4 (S)	%	101	70-130	01/05/21 12:38	
4-Bromofluorobenzene (S)	%	99	70-130	01/05/21 12:38	
Toluene-d8 (S)	%	100	70-130	01/05/21 12:38	

LABORATORY CONTROL SAMPLE: 3118490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	60-140	
1,1,1-Trichloroethane	ug/L	50	49.9	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	60-140	
1,1,2-Trichloroethane	ug/L	50	50.8	102	60-140	
1,1-Dichloroethane	ug/L	50	49.4	99	60-140	
1,1-Dichloroethene	ug/L	50	49.7	99	60-140	
1,1-Dichloropropene	ug/L	50	50.3	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.9	98	60-140	
1,2,3-Trichloropropane	ug/L	50	48.7	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.9	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.1	104	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	50.9	102	60-140	
1,2-Dichloroethane	ug/L	50	47.8	96	60-140	
1,2-Dichloropropane	ug/L	50	49.4	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.0	102	60-140	

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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.: 92514602

LABORATORY CONTROL SAMPLE: 3118490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.0	100	60-140	
1,3-Dichloropropane	ug/L	50	51.1	102	60-140	
1,4-Dichlorobenzene	ug/L	50	49.9	100	60-140	
2,2-Dichloropropane	ug/L	50	52.2	104	60-140	
2-Chlorotoluene	ug/L	50	49.5	99	60-140	
4-Chlorotoluene	ug/L	50	49.3	99	60-140	
Benzene	ug/L	50	48.5	97	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.1	104	60-140	
Bromodichloromethane	ug/L	50	49.2	98	60-140	
Bromoform	ug/L	50	54.7	109	60-140	
Bromomethane	ug/L	50	48.1	96	60-140	
Carbon tetrachloride	ug/L	50	50.4	101	60-140	
Chlorobenzene	ug/L	50	49.5	99	60-140	
Chloroethane	ug/L	50	39.7	79	60-140	
Chloroform	ug/L	50	47.8	96	60-140	
Chloromethane	ug/L	50	43.0	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.6	95	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Dibromochloromethane	ug/L	50	53.9	108	60-140	
Dibromomethane	ug/L	50	50.0	100	60-140	
Dichlorodifluoromethane	ug/L	50	35.0	70	60-140	
Diisopropyl ether	ug/L	50	48.3	97	60-140	
Ethylbenzene	ug/L	50	47.2	94	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.8	102	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.7	97	60-140	
m&p-Xylene	ug/L	100	95.2	95	60-140	
Methyl-tert-butyl ether	ug/L	50	51.7	103	60-140	
Methylene Chloride	ug/L	50	44.8	90	60-140	
n-Butylbenzene	ug/L	50	52.3	105	60-140	
n-Propylbenzene	ug/L	50	49.7	99	60-140	
Naphthalene	ug/L	50	52.8	106	60-140	
o-Xylene	ug/L	50	48.4	97	60-140	
sec-Butylbenzene	ug/L	50	48.6	97	60-140	
Styrene	ug/L	50	49.3	99	60-140	
tert-Butylbenzene	ug/L	50	40.8	82	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.4	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.6	105	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	40.0	80	60-140	
Vinyl chloride	ug/L	50	40.3	81	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92514602

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118491 3118492

Parameter	Units	92514598016 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	21.7	20.9	109	104	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.2	21.4	106	107	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.7	19.1	103	96	60-140	8	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	21.2	108	106	60-140	2	
1,1-Dichloroethane	ug/L	ND	20	20	20.8	20.8	104	104	60-140	0	
1,1-Dichloroethene	ug/L	ND	20	20	22.2	22.4	111	112	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	21.8	21.5	109	108	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	19.1	100	95	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.7	19.5	103	97	60-140	6	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.7	19.2	104	96	60-140	8	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.3	20.8	107	104	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.7	19.9	98	99	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.7	20.8	108	104	60-140	4	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.0	20.8	105	104	60-140	1	
1,2-Dichloroethane	ug/L	ND	20	20	20.2	20.6	101	103	60-140	2	
1,2-Dichloropropane	ug/L	ND	20	20	21.5	21.7	108	109	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.1	20.3	105	102	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.1	21.2	111	106	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	22.2	21.3	111	107	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.6	20.4	108	102	60-140	6	
2,2-Dichloropropane	ug/L	ND	20	20	22.1	21.9	110	109	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	21.4	21.5	107	108	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	21.1	20.8	106	104	60-140	2	
Benzene	ug/L	ND	20	20	21.2	21.6	106	108	60-140	2	
Bromobenzene	ug/L	ND	20	20	21.2	20.0	106	100	60-140	6	
Bromochloromethane	ug/L	ND	20	20	21.3	21.5	106	107	60-140	1	
Bromodichloromethane	ug/L	ND	20	20	20.1	21.4	101	107	60-140	6	
Bromoform	ug/L	ND	20	20	21.3	20.0	107	100	60-140	6	
Bromomethane	ug/L	ND	20	20	19.3	18.8	97	94	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	22.4	22.5	112	112	60-140	0	
Chlorobenzene	ug/L	ND	20	20	21.7	21.2	109	106	60-140	3	
Chloroethane	ug/L	ND	20	20	18.0	18.5	90	92	60-140	2	
Chloroform	ug/L	ND	20	20	21.4	20.0	107	100	60-140	6	
Chloromethane	ug/L	ND	20	20	17.8	17.3	89	87	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.6	20.9	103	105	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.4	21.6	107	108	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.5	21.1	107	106	60-140	2	
Dibromomethane	ug/L	ND	20	20	21.0	21.5	105	107	60-140	2	
Dichlorodifluoromethane	ug/L	ND	20	20	16.9	16.9	84	84	60-140	0	
Diisopropyl ether	ug/L	ND	20	20	19.4	19.8	97	99	60-140	2	
Ethylbenzene	ug/L	ND	20	20	21.8	20.6	109	103	60-140	6	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.7	22.5	119	113	60-140	5	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.9	21.2	110	106	60-140	4	
m&p-Xylene	ug/L	ND	40	40	44.0	41.3	110	103	60-140	6	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.4	20.2	102	101	60-140	1	
Methylene Chloride	ug/L	ND	20	20	19.8	20.2	99	101	60-140	2	

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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.: 92514602

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118491 3118492

Parameter	Units	92514598016 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	22.4	21.6	112	108	60-140	4	
n-Propylbenzene	ug/L	ND	20	20	21.4	20.8	107	104	60-140	3	
Naphthalene	ug/L	ND	20	20	20.2	20.1	101	101	60-140	0	
o-Xylene	ug/L	ND	20	20	22.1	21.2	111	106	60-140	4	
sec-Butylbenzene	ug/L	ND	20	20	21.6	21.0	108	105	60-140	3	
Styrene	ug/L	ND	20	20	21.9	20.8	109	104	60-140	5	
tert-Butylbenzene	ug/L	ND	20	20	17.7	17.4	89	87	60-140	2	
Tetrachloroethene	ug/L	ND	20	20	21.1	20.1	106	101	60-140	5	
Toluene	ug/L	ND	20	20	20.8	20.8	104	104	60-140	0	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.7	21.1	109	105	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.4	22.2	107	111	60-140	3	
Trichloroethene	ug/L	ND	20	20	22.0	21.7	110	109	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	19.1	19.3	95	96	60-140	1	
Vinyl chloride	ug/L	ND	20	20	17.7	17.1	88	85	60-140	3	
1,2-Dichloroethane-d4 (S)	%						96	94	70-130		
4-Bromofluorobenzene (S)	%						103	101	70-130		
Toluene-d8 (S)	%						97	96	70-130		

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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.: 92514602

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.: 92514602

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514602001	**MW-61D(96.5-103.5)**	MADEPV	1601656	MADEP VPH	1601656
92514602002	**DUP-1**	MADEPV	1601656	MADEP VPH	1601656
92514602003	**EB-1**	MADEPV	1602057	MADEP VPH	1602057
92514602004	**FB-1**	MADEPV	1601656	MADEP VPH	1601656
92514602001	**MW-61D(96.5-103.5)**	EPA 3010A	590827	EPA 6010D	590849
92514602002	**DUP-1**	EPA 3010A	590827	EPA 6010D	590849
92514602003	**EB-1**	EPA 3010A	590827	EPA 6010D	590849
92514602004	**FB-1**	EPA 3010A	590827	EPA 6010D	590849
92514602001	**MW-61D(96.5-103.5)**	SM 6200B	590687		
92514602002	**DUP-1**	SM 6200B	590687		
92514602003	**EB-1**	SM 6200B	590687		
92514602004	**FB-1**	SM 6200B	590687		
92514602005	**Trip Blank**	SM 6200B	590687		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92514602

92514602

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-CI-2448 Incident	State: NC County/City: Hunterville 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	Lab Sample # / Comments
MW-61D (96.5-103.5)	GW	G	1-5-21	1605				8	X	X	X	001
DUP-1	GW	G	1-5-21	-				8	X	X	X	002
EB-1	OT	G	1-5-21	1100				8	X	X	X	003
FB-1	OT	G	1-5-21	-				8	X	X	X	004
Trip Blank	OT	~~G~~ 6	1-5-21	-				2	X			005

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 1/4/21
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:

92514602

** 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 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 #: 2561476
	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: 5.1 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.0 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	1-4-21 1740	HD PACE HVL	1/4/21 1740
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: 1-4-21	Evaluated by: MDG
Client: APEX	

WO#: 92514602

PM: AMB Due Date: 01/11/21

CLIENT: 92-APEX MOOR

Pace ...ber

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:

COC says 1-5 for collection, Containers say 1-4-21

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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

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 (1/5/21)
Pace Project No.: 92514892

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514892001	**MW-44**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514892002	**MW-62**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514892003	**MW-60**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514892004	**MW-14**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514892005	**MW-45**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514892006	**MW-51**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514892007	**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 (1/5/21)
Pace Project No.: 92514892

Sample: MW-44 **Lab ID: 92514892001** Collected: 01/05/21 10:30 Received: 01/05/21 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	01/09/21 07:09	01/09/21 07:09		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 07:09	01/09/21 07:09		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 07:09	01/09/21 07:09	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 07:09	01/09/21 07:09	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.3	%	70.0-130	1	01/09/21 07:09	01/09/21 07:09	615-59-8FID	
2,5-Dibromotoluene (PID)	81.5	%	70.0-130	1	01/09/21 07:09	01/09/21 07:09	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**54.4**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:14	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 12:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 12:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 12:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 12:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 12:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 12:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 12:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 12:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 12:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 12:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 12:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 12:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 12:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 12:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 12:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 12:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 12:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 12:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 12:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 12:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 12:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 12:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 12:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 12:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 12:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 12:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 12:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 12:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 12:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 12:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 12:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 12:31	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 (1/5/21)
Pace Project No.: 92514892

Sample: MW-44 **Lab ID: 92514892001** Collected: 01/05/21 10:30 Received: 01/05/21 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		01/06/21 12:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 12:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 12:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 12:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 12:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 12:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 12:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 12:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 12:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 12:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 12:31	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 12:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 12:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 12:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 12:31	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 12:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 12:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 12:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 12:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 12:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 12:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 12:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 12:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 12:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 12:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 12:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 12:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 12:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/06/21 12:31	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/06/21 12:31	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 12:31	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 (1/5/21)
Pace Project No.: 92514892

Sample: MW-62 **Lab ID: 92514892002** Collected: 01/05/21 10:45 Received: 01/05/21 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	01/09/21 07:42	01/09/21 07:42		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 07:42	01/09/21 07:42		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 07:42	01/09/21 07:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 07:42	01/09/21 07:42	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	01/09/21 07:42	01/09/21 07:42	615-59-8FID	
2,5-Dibromotoluene (PID)	83.0	%	70.0-130	1	01/09/21 07:42	01/09/21 07:42	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**74.5**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:17	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 12:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 12:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 12:49	74-97-5	
Bromodichloromethane	**3.7**	ug/L	0.50	1		01/06/21 12:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 12:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 12:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 12:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 12:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 12:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 12:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 12:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 12:49	75-00-3	
Chloroform	**16.8**	ug/L	0.50	1		01/06/21 12:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 12:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 12:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 12:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 12:49	96-12-8	
Dibromochloromethane	**0.95**	ug/L	0.50	1		01/06/21 12:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 12:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 12:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 12:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 12:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 12:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 12:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 12:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 12:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 12:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 12:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 12:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 12:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 12:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 12:49	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 (1/5/21)
Pace Project No.: 92514892

Sample: MW-62 **Lab ID: 92514892002** Collected: 01/05/21 10:45 Received: 01/05/21 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		01/06/21 12:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 12:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 12:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 12:49	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 12:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 12:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 12:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 12:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 12:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 12:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 12:49	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 12:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 12:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 12:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 12:49	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 12:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 12:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 12:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 12:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 12:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 12:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 12:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 12:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 12:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 12:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 12:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 12:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 12:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/06/21 12:49	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 12:49	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 12:49	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 (1/5/21)
Pace Project No.: 92514892

Sample: MW-60 **Lab ID: 92514892003** Collected: 01/05/21 11:40 Received: 01/05/21 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	01/10/21 00:55	01/10/21 00:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 00:55	01/10/21 00:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 00:55	01/10/21 00:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 00:55	01/10/21 00:55	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.2	%	70.0-130	1	01/10/21 00:55	01/10/21 00:55	615-59-8FID	
2,5-Dibromotoluene (PID)	81.0	%	70.0-130	1	01/10/21 00:55	01/10/21 00:55	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**52.8**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:20	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 13:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 13:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 13:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 13:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 13:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 13:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 13:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 13:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 13:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 13:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 13:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 13:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 13:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 13:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 13:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 13:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 13:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 13:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 13:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 13:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:07	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

Sample: MW-60 **Lab ID: 92514892003** Collected: 01/05/21 11:40 Received: 01/05/21 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		01/06/21 13:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 13:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 13:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 13:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 13:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 13:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 13:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 13:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 13:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 13:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 13:07	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 13:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 13:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 13:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 13:07	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 13:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 13:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 13:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 13:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 13:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 13:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 13:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 13:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 13:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 13:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 13:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 13:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 13:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/06/21 13:07	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 13:07	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 13:07	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

Sample: MW-14 **Lab ID: 92514892004** Collected: 01/05/21 13:30 Received: 01/05/21 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	01/10/21 01:28	01/10/21 01:28		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 01:28	01/10/21 01:28		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 01:28	01/10/21 01:28	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 01:28	01/10/21 01:28	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	01/10/21 01:28	01/10/21 01:28	615-59-8FID	
2,5-Dibromotoluene (PID)	81.7	%	70.0-130	1	01/10/21 01:28	01/10/21 01:28	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**94.7**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:23	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 13:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 13:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 13:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 13:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 13:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 13:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 13:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 13:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 13:25	75-00-3	
Chloroform	**0.56**	ug/L	0.50	1		01/06/21 13:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 13:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 13:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 13:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 13:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 13:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 13:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 13:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 13:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 13:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 13:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:25	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

Sample: MW-14 **Lab ID: 92514892004** Collected: 01/05/21 13:30 Received: 01/05/21 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		01/06/21 13:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 13:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 13:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 13:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 13:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 13:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 13:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 13:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 13:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 13:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 13:25	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 13:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 13:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 13:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 13:25	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 13:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 13:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 13:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 13:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 13:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 13:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 13:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 13:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 13:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 13:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 13:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 13:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 13:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/06/21 13:25	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 13:25	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 13:25	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 (1/5/21)
Pace Project No.: 92514892

Sample: MW-45 **Lab ID: 92514892005** Collected: 01/05/21 15:00 Received: 01/05/21 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	01/10/21 02:01	01/10/21 02:01		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 02:01	01/10/21 02:01		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 02:01	01/10/21 02:01	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 02:01	01/10/21 02:01	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.4	%	70.0-130	1	01/10/21 02:01	01/10/21 02:01	615-59-8FID	
2,5-Dibromotoluene (PID)	83.8	%	70.0-130	1	01/10/21 02:01	01/10/21 02:01	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**12.8**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:26	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 13:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 13:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 13:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 13:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 13:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 13:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 13:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 13:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 13:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 13:43	75-00-3	
Chloroform	**4.6**	ug/L	0.50	1		01/06/21 13:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 13:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 13:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 13:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 13:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 13:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 13:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 13:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 13:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 13:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 13:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 13:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 13:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 13:43	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

Sample: MW-45 **Lab ID: 92514892005** Collected: 01/05/21 15:00 Received: 01/05/21 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		01/06/21 13:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 13:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 13:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 13:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 13:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 13:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 13:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 13:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 13:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 13:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 13:43	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 13:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 13:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 13:43	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 13:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 13:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 13:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 13:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 13:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 13:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 13:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 13:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 13:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 13:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 13:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 13:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 13:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 13:43	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/06/21 13:43	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/06/21 13:43	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 (1/5/21)
Pace Project No.: 92514892

Sample: MW-51 **Lab ID: 92514892006** Collected: 01/05/21 15:30 Received: 01/05/21 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	01/10/21 02:34	01/10/21 02:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 02:34	01/10/21 02:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 02:34	01/10/21 02:34	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 02:34	01/10/21 02:34	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.8	%	70.0-130	1	01/10/21 02:34	01/10/21 02:34	615-59-8FID	
2,5-Dibromotoluene (PID)	78.8	%	70.0-130	1	01/10/21 02:34	01/10/21 02:34	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**141**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:30	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 14:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 14:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 14:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 14:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 14:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 14:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 14:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 14:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 14:01	75-00-3	
Chloroform	**5.3**	ug/L	0.50	1		01/06/21 14:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 14:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 14:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 14:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 14:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 14:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 14:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:01	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

Sample: MW-51 **Lab ID: 92514892006** Collected: 01/05/21 15:30 Received: 01/05/21 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		01/06/21 14:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 14:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 14:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 14:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 14:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 14:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 14:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 14:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 14:01	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 14:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 14:01	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 14:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 14:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 14:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 14:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 14:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 14:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 14:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/06/21 14:01	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/06/21 14:01	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 14:01	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 (1/5/21)
Pace Project No.: 92514892

Sample: Trip Blank **Lab ID: 92514892007** Collected: 01/05/21 00:00 Received: 01/05/21 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		01/06/21 11:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 11:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 11:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 11:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 11:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 11:20	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 11:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 11:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 11:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 11:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 11:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 11:20	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 11:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 11:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 11:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 11:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 11:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 11:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 11:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 11:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 11:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 11:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 11:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 11:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 11:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 11:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 11:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 11:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 11:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 11:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 11:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 11:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/06/21 11:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 11:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 11:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 11:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 11:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 11:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 11:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 11:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 11:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 11:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 11:20	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 11:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 11:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 11:20	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 (1/5/21)
Pace Project No.: 92514892

Sample: Trip Blank **Lab ID: 92514892007** Collected: 01/05/21 00:00 Received: 01/05/21 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		01/06/21 11:20	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 11:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 11:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 11:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 11:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 11:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 11:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 11:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 11:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 11:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 11:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 11:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 11:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 11:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/06/21 11:20	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 11:20	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 11:20	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 (1/5/21)
Pace Project No.: 92514892

QC Batch: 1602815
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92514892001, 92514892002

METHOD BLANK: R3611153-3 Matrix: Water
Associated Lab Samples: 92514892001, 92514892002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 05:28	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 05:28	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 05:28	
Total VPH	ug/L	ND	100	01/09/21 05:28	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/09/21 05:28	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 05:28	

LABORATORY CONTROL SAMPLE & LCSD: R3611153-1 R3611153-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1090	1080	90.8	90.0	70.0-130	0.922	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1550	114	111	70.0-130	2.55	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	200	197	100	98.5	70.0-130	1.51	25	
Total VPH	ug/L	2800	2880	2830	103	101	70.0-130	1.75	25	
2,5-Dibromotoluene (FID)	%				95.5	94.9	70.0-130			
2,5-Dibromotoluene (PID)	%				85.1	85.8	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
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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

QC Batch: 1603010
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92514892003, 92514892004, 92514892005, 92514892006

METHOD BLANK: R3611200-3 Matrix: Water
Associated Lab Samples: 92514892003, 92514892004, 92514892005, 92514892006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 20:50	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 20:50	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 20:50	
Total VPH	ug/L	ND	100	01/09/21 20:50	
2,5-Dibromotoluene (FID)	%	88.2	70.0-130	01/09/21 20:50	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 20:50	

LABORATORY CONTROL SAMPLE & LCSD: R3611200-1 R3611200-2

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	1030	86.7	85.8	70.0-130	0.966	25	
Aliphatic (C09-C12)	ug/L	1400	1490	1450	106	104	70.0-130	2.72	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	184	93.0	92.0	70.0-130	1.08	25	
Total VPH	ug/L	2800	2720	2660	97.1	95.0	70.0-130	2.23	25	
2,5-Dibromotoluene (FID)	%				96.7	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.2	85.0	70.0-130			

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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 (1/5/21)
Pace Project No.: 92514892

QC Batch: 591105 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514892001, 92514892002, 92514892003, 92514892004, 92514892005, 92514892006

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514892001, 92514892002, 92514892003, 92514892004, 92514892005, 92514892006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

QC Batch: 590897 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514892001, 92514892002, 92514892003, 92514892004, 92514892005, 92514892006, 92514892007

METHOD BLANK: 3119484 Matrix: Water
Associated Lab Samples: 92514892001, 92514892002, 92514892003, 92514892004, 92514892005, 92514892006, 92514892007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1-Dichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1-Dichloroethene	ug/L	ND	0.50	01/06/21 10:44	
1,1-Dichloropropene	ug/L	ND	0.50	01/06/21 10:44	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/06/21 10:44	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/06/21 10:44	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/06/21 10:44	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/06/21 10:44	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dichloropropane	ug/L	ND	0.50	01/06/21 10:44	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/06/21 10:44	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
1,3-Dichloropropane	ug/L	ND	0.50	01/06/21 10:44	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
2,2-Dichloropropane	ug/L	ND	0.50	01/06/21 10:44	
2-Chlorotoluene	ug/L	ND	0.50	01/06/21 10:44	
4-Chlorotoluene	ug/L	ND	0.50	01/06/21 10:44	
Benzene	ug/L	ND	0.50	01/06/21 10:44	
Bromobenzene	ug/L	ND	0.50	01/06/21 10:44	
Bromochloromethane	ug/L	ND	0.50	01/06/21 10:44	
Bromodichloromethane	ug/L	ND	0.50	01/06/21 10:44	
Bromoform	ug/L	ND	0.50	01/06/21 10:44	
Bromomethane	ug/L	ND	5.0	01/06/21 10:44	
Carbon tetrachloride	ug/L	ND	0.50	01/06/21 10:44	
Chlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
Chloroethane	ug/L	ND	1.0	01/06/21 10:44	
Chloroform	ug/L	ND	0.50	01/06/21 10:44	
Chloromethane	ug/L	ND	1.0	01/06/21 10:44	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 10:44	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 10:44	
Dibromochloromethane	ug/L	ND	0.50	01/06/21 10:44	
Dibromomethane	ug/L	ND	0.50	01/06/21 10:44	
Dichlorodifluoromethane	ug/L	ND	0.50	01/06/21 10:44	
Diisopropyl ether	ug/L	ND	0.50	01/06/21 10:44	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

METHOD BLANK: 3119484 Matrix: Water
Associated Lab Samples: 92514892001, 92514892002, 92514892003, 92514892004, 92514892005, 92514892006, 92514892007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/06/21 10:44	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/06/21 10:44	
m&p-Xylene	ug/L	ND	1.0	01/06/21 10:44	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/06/21 10:44	
Methylene Chloride	ug/L	ND	2.0	01/06/21 10:44	
n-Butylbenzene	ug/L	ND	0.50	01/06/21 10:44	
n-Propylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Naphthalene	ug/L	ND	2.0	01/06/21 10:44	
o-Xylene	ug/L	ND	0.50	01/06/21 10:44	
sec-Butylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Styrene	ug/L	ND	0.50	01/06/21 10:44	
tert-Butylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Tetrachloroethene	ug/L	ND	0.50	01/06/21 10:44	
Toluene	ug/L	ND	0.50	01/06/21 10:44	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 10:44	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 10:44	
Trichloroethene	ug/L	ND	0.50	01/06/21 10:44	
Trichlorofluoromethane	ug/L	ND	1.0	01/06/21 10:44	
Vinyl chloride	ug/L	ND	1.0	01/06/21 10:44	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/06/21 10:44	
4-Bromofluorobenzene (S)	%	99	70-130	01/06/21 10:44	
Toluene-d8 (S)	%	102	70-130	01/06/21 10:44	

LABORATORY CONTROL SAMPLE: 3119485

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	57.5	115	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	58.3	117	60-140	
1,1-Dichloroethane	ug/L	50	59.8	120	60-140	
1,1-Dichloroethene	ug/L	50	57.6	115	60-140	
1,1-Dichloropropene	ug/L	50	60.0	120	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.3	107	60-140	
1,2,3-Trichloropropane	ug/L	50	49.0	98	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.3	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.8	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.6	117	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	60-140	
1,2-Dichlorobenzene	ug/L	50	52.1	104	60-140	
1,2-Dichloroethane	ug/L	50	50.2	100	60-140	
1,2-Dichloropropane	ug/L	50	57.2	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.1	98	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

LABORATORY CONTROL SAMPLE: 3119485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,3-Dichloropropane	ug/L	50	50.0	100	60-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	60-140	
2,2-Dichloropropane	ug/L	50	59.1	118	60-140	
2-Chlorotoluene	ug/L	50	50.3	101	60-140	
4-Chlorotoluene	ug/L	50	49.1	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	49.7	99	60-140	
Bromochloromethane	ug/L	50	64.7	129	60-140	
Bromodichloromethane	ug/L	50	53.6	107	60-140	
Bromoform	ug/L	50	52.3	105	60-140	
Bromomethane	ug/L	50	46.1	92	60-140	
Carbon tetrachloride	ug/L	50	51.1	102	60-140	
Chlorobenzene	ug/L	50	49.6	99	60-140	
Chloroethane	ug/L	50	33.6	67	60-140	
Chloroform	ug/L	50	57.5	115	60-140	
Chloromethane	ug/L	50	49.7	99	60-140	
cis-1,2-Dichloroethene	ug/L	50	56.3	113	60-140	
cis-1,3-Dichloropropene	ug/L	50	59.2	118	60-140	
Dibromochloromethane	ug/L	50	51.0	102	60-140	
Dibromomethane	ug/L	50	61.6	123	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	56.3	113	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.2	104	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	60-140	
m&p-Xylene	ug/L	100	96.1	96	60-140	
Methyl-tert-butyl ether	ug/L	50	59.6	119	60-140	
Methylene Chloride	ug/L	50	57.2	114	60-140	
n-Butylbenzene	ug/L	50	49.7	99	60-140	
n-Propylbenzene	ug/L	50	48.6	97	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	49.6	99	60-140	
sec-Butylbenzene	ug/L	50	49.0	98	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	41.3	83	60-140	
Tetrachloroethene	ug/L	50	49.7	99	60-140	
Toluene	ug/L	50	55.6	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.7	115	60-140	
trans-1,3-Dichloropropene	ug/L	50	57.1	114	60-140	
Trichloroethene	ug/L	50	56.9	114	60-140	
Trichlorofluoromethane	ug/L	50	45.8	92	60-140	
Vinyl chloride	ug/L	50	50.8	102	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119486 3119487

Parameter	Units	92514571001 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	<211	10000	10000	10800	10700	108	107	60-140	1	
1,1,1-Trichloroethane	ug/L	<139	10000	10000	13400	13200	134	132	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	<96.5	10000	10000	10300	10600	103	106	60-140	3	
1,1,2-Trichloroethane	ug/L	<116	10000	10000	12500	13100	125	131	60-140	5	
1,1-Dichloroethane	ug/L	<122	10000	10000	13600	13900	136	139	60-140	2	
1,1-Dichloroethene	ug/L	<109	10000	10000	13500	13700	135	137	60-140	1	
1,1-Dichloropropene	ug/L	<174	10000	10000	13700	14200	137	142	60-140	3	M1
1,2,3-Trichlorobenzene	ug/L	<390	10000	10000	10100	11100	101	111	60-140	9	
1,2,3-Trichloropropane	ug/L	<136	10000	10000	10300	10200	103	102	60-140	1	
1,2,4-Trichlorobenzene	ug/L	<218	10000	10000	10300	11100	103	111	60-140	7	
1,2,4-Trimethylbenzene	ug/L	3560	10000	10000	14300	14400	107	109	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<192	10000	10000	10700	11500	107	115	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	<116	10000	10000	11000	11000	110	110	60-140	1	
1,2-Dichlorobenzene	ug/L	<120	10000	10000	11000	11200	110	112	60-140	2	
1,2-Dichloroethane	ug/L	<132	10000	10000	11100	11300	111	113	60-140	2	
1,2-Dichloropropane	ug/L	<91.5	10000	10000	12400	13100	124	131	60-140	5	
1,3,5-Trimethylbenzene	ug/L	<114	10000	10000	11800	11900	118	119	60-140	1	
1,3-Dichlorobenzene	ug/L	<125	10000	10000	11000	11100	110	111	60-140	1	
1,3-Dichloropropane	ug/L	<170	10000	10000	10700	11000	107	110	60-140	3	
1,4-Dichlorobenzene	ug/L	<124	10000	10000	10700	10900	107	109	60-140	2	
2,2-Dichloropropane	ug/L	<140	10000	10000	11900	12000	119	120	60-140	1	
2-Chlorotoluene	ug/L	<104	10000	10000	11300	11400	113	114	60-140	1	
4-Chlorotoluene	ug/L	<103	10000	10000	10600	10700	106	107	60-140	1	
Benzene	ug/L	3080	10000	10000	15900	16200	128	131	60-140	2	
Bromobenzene	ug/L	<108	10000	10000	11000	11100	110	111	60-140	0	
Bromochloromethane	ug/L	<129	10000	10000	13900	14200	139	142	60-140	2	M1
Bromodichloromethane	ug/L	<92.5	10000	10000	11600	12000	116	120	60-140	3	
Bromoform	ug/L	<202	10000	10000	10600	10600	106	106	60-140	1	
Bromomethane	ug/L	<860	10000	10000	10700	11800	107	118	60-140	10	
Carbon tetrachloride	ug/L	<116	10000	10000	12000	12300	120	123	60-140	3	
Chlorobenzene	ug/L	<112	10000	10000	11000	11100	110	111	60-140	0	
Chloroethane	ug/L	<292	10000	10000	10800	10800	108	108	60-140	0	
Chloroform	ug/L	<176	10000	10000	13000	13200	130	132	60-140	2	
Chloromethane	ug/L	<208	10000	10000	10900	11000	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	<104	10000	10000	12900	13000	129	130	60-140	1	
cis-1,3-Dichloropropene	ug/L	<178	10000	10000	12500	13000	125	130	60-140	4	
Dibromochloromethane	ug/L	<201	10000	10000	10700	10800	107	108	60-140	1	
Dibromomethane	ug/L	<155	10000	10000	12800	13600	128	136	60-140	6	
Dichlorodifluoromethane	ug/L	<142	10000	10000	10600	10600	106	106	60-140	0	
Diisopropyl ether	ug/L	187J	10000	10000	12300	12600	121	124	60-140	2	
Ethylbenzene	ug/L	5290	10000	10000	16000	16200	108	110	60-140	1	
Hexachloro-1,3-butadiene	ug/L	<600	10000	10000	10800	11300	108	113	60-140	4	
Isopropylbenzene (Cumene)	ug/L	<119	10000	10000	11100	11200	111	112	60-140	0	
m&p-Xylene	ug/L	21500	20000	20000	42600	43600	106	111	60-140	2	
Methyl-tert-butyl ether	ug/L	<222	10000	10000	12500	12800	125	128	60-140	2	
Methylene Chloride	ug/L	<750	10000	10000	13300	13400	133	134	60-140	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119486 3119487

Parameter	Units	92514571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<176	10000	10000	10500	10600	105	106	60-140	1	
n-Propylbenzene	ug/L	<120	10000	10000	11100	11200	111	112	60-140	1	
Naphthalene	ug/L	615J	10000	10000	10700	11900	101	112	60-140	10	
o-Xylene	ug/L	8630	10000	10000	19700	19800	111	112	60-140	0	
sec-Butylbenzene	ug/L	<123	10000	10000	11000	11100	110	111	60-140	1	
Styrene	ug/L	211J	10000	10000	11100	11200	109	110	60-140	1	
tert-Butylbenzene	ug/L	<125	10000	10000	9360	9390	94	94	60-140	0	
Tetrachloroethene	ug/L	<116	10000	10000	11200	11000	112	110	60-140	1	
Toluene	ug/L	85500	10000	10000	96900	102000	114	161	60-140	5	E,M1
trans-1,2-Dichloroethene	ug/L	<128	10000	10000	13500	13800	135	138	60-140	2	
trans-1,3-Dichloropropene	ug/L	<197	10000	10000	11800	12300	118	123	60-140	4	
Trichloroethene	ug/L	<116	10000	10000	12900	13300	129	133	60-140	3	
Trichlorofluoromethane	ug/L	<168	10000	10000	12300	12400	123	124	60-140	1	
Vinyl chloride	ug/L	<204	10000	10000	12200	12500	122	125	60-140	2	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130		
4-Bromofluorobenzene (S)	%						99	101	70-130		
Toluene-d8 (S)	%						101	104	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514892

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 (1/5/21)
Pace Project No.: 92514892

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514892001	**MW-44**	MADEPV	1602815	MADEP VPH	1602815
92514892002	**MW-62**	MADEPV	1602815	MADEP VPH	1602815
92514892003	**MW-60**	MADEPV	1603010	MADEP VPH	1603010
92514892004	**MW-14**	MADEPV	1603010	MADEP VPH	1603010
92514892005	**MW-45**	MADEPV	1603010	MADEP VPH	1603010
92514892006	**MW-51**	MADEPV	1603010	MADEP VPH	1603010
92514892001	**MW-44**	EPA 3010A	591105	EPA 6010D	591117
92514892002	**MW-62**	EPA 3010A	591105	EPA 6010D	591117
92514892003	**MW-60**	EPA 3010A	591105	EPA 6010D	591117
92514892004	**MW-14**	EPA 3010A	591105	EPA 6010D	591117
92514892005	**MW-45**	EPA 3010A	591105	EPA 6010D	591117
92514892006	**MW-51**	EPA 3010A	591105	EPA 6010D	591117
92514892001	**MW-44**	SM 6200B	590897		
92514892002	**MW-62**	SM 6200B	590897		
92514892003	**MW-60**	SM 6200B	590897		
92514892004	**MW-14**	SM 6200B	590897		
92514892005	**MW-45**	SM 6200B	590897		
92514892006	**MW-51**	SM 6200B	590897		
92514892007	**Trip Blank**	SM 6200B	590897		

Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 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# : 92514892

92514892

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: 1-5-21 AMP

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 92T064 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.8/5.8 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): 4.7/5.7

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# : 92514892

PM: NMG Due Date: 01/12/21

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																2													
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.

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	Requested Analysis Filtered (Y/N): 6200	VPH	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	9251892
1	MW-44	WT	G	1/5/21	1030				8			X	X						X	X	X				001
2	MW-62				1045																				002
3	MW-60				1140																				003
4	MW-14				1330																				004
5	MW-45				1500																				005
6	MW-51				1530																				005
7	Trip Blank								2	LAB Provided													X		006
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)
	Ben Weisebs AECOM	1/5/20	1630	MD Upon HVL	1-5-21	16:30	4.7	Y	N	Y
							5.7			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Weisebs

SIGNATURE of SAMPLER: [signature] DATE Signed: 1/5/20

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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

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 (1/5/21)
Pace Project No.: 92514898

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514898001	**MW-58**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514898002	**MW-59**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514898003	**MW-52**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514898004	**MW-29**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514898005	**MW-43**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514898006	**MW-41**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514898007	**Dup-1-20210105**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514898008	**FB-1-20210105**	MADEP VPH	JHH	6	PAN
		SM 6200B	SAS	63	PASI-C
92514898009	**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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-58 **Lab ID: 92514898001** Collected: 01/05/21 09:30 Received: 01/05/21 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	01/10/21 03:07	01/10/21 03:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 03:07	01/10/21 03:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 03:07	01/10/21 03:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 03:07	01/10/21 03:07	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.9	%	70.0-130	1	01/10/21 03:07	01/10/21 03:07	615-59-8FID	
2,5-Dibromotoluene (PID)	83.1	%	70.0-130	1	01/10/21 03:07	01/10/21 03:07	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	01/07/21 02:07	01/07/21 17:33	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 14:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 14:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 14:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 14:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 14:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 14:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 14:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 14:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 14:19	75-00-3	
Chloroform	**2.2**	ug/L	0.50	1		01/06/21 14:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 14:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 14:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 14:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 14:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 14:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 14:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:19	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-58 **Lab ID: 92514898001** Collected: 01/05/21 09:30 Received: 01/05/21 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		01/06/21 14:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 14:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 14:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 14:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 14:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 14:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 14:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 14:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 14:19	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 14:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 14:19	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 14:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 14:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 14:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 14:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 14:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 14:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 14:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 14:19	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 14:19	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 14:19	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-59 **Lab ID: 92514898002** Collected: 01/05/21 10:35 Received: 01/05/21 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	01/10/21 03:41	01/10/21 03:41		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 03:41	01/10/21 03:41		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 03:41	01/10/21 03:41	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 03:41	01/10/21 03:41	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.2	%	70.0-130	1	01/10/21 03:41	01/10/21 03:41	615-59-8FID	
2,5-Dibromotoluene (PID)	82.4	%	70.0-130	1	01/10/21 03:41	01/10/21 03:41	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**37.3**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:36	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 14:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 14:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 14:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 14:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 14:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 14:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 14:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 14:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 14:37	75-00-3	
Chloroform	**1.1**	ug/L	0.50	1		01/06/21 14:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 14:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 14:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 14:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 14:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 14:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 14:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:37	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-59 **Lab ID: 92514898002** Collected: 01/05/21 10:35 Received: 01/05/21 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		01/06/21 14:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 14:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 14:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 14:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 14:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 14:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 14:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 14:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 14:37	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 14:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 14:37	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 14:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 14:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 14:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 14:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 14:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 14:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 14:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 14:37	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/06/21 14:37	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 14:37	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-52 **Lab ID: 92514898003** Collected: 01/05/21 11:50 Received: 01/05/21 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)	**899**	ug/L	100	1	01/10/21 04:14	01/10/21 04:14		
Aliphatic (C09-C12)	**204**	ug/L	100	1	01/10/21 04:14	01/10/21 04:14		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 04:14	01/10/21 04:14	TPHC9C10A	
Total VPH	**1150**	ug/L	100	1	01/10/21 04:14	01/10/21 04:14	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	100	%	70.0-130	1	01/10/21 04:14	01/10/21 04:14	615-59-8FID	
2,5-Dibromotoluene (PID)	85.7	%	70.0-130	1	01/10/21 04:14	01/10/21 04:14	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**14.1**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:40	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**142**	ug/L	1.0	2		01/07/21 13:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	2		01/07/21 13:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	2		01/07/21 13:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	2		01/07/21 13:15	75-27-4	
Bromoform	ND	ug/L	1.0	2		01/07/21 13:15	75-25-2	
Bromomethane	ND	ug/L	10.0	2		01/07/21 13:15	74-83-9	
n-Butylbenzene	ND	ug/L	1.0	2		01/07/21 13:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	2		01/07/21 13:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	2		01/07/21 13:15	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	2		01/07/21 13:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	2		01/07/21 13:15	108-90-7	
Chloroethane	ND	ug/L	2.0	2		01/07/21 13:15	75-00-3	
Chloroform	ND	ug/L	1.0	2		01/07/21 13:15	67-66-3	
Chloromethane	ND	ug/L	2.0	2		01/07/21 13:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	2		01/07/21 13:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	2		01/07/21 13:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2		01/07/21 13:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	2		01/07/21 13:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	2		01/07/21 13:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	2		01/07/21 13:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	2		01/07/21 13:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	2		01/07/21 13:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	2		01/07/21 13:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	2		01/07/21 13:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	2		01/07/21 13:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	2		01/07/21 13:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	2		01/07/21 13:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	2		01/07/21 13:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	2		01/07/21 13:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	2		01/07/21 13:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	2		01/07/21 13:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	2		01/07/21 13:15	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-52 **Lab ID: 92514898003** Collected: 01/05/21 11:50 Received: 01/05/21 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	1.0	2		01/07/21 13:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	2		01/07/21 13:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	2		01/07/21 13:15	10061-02-6	
Diisopropyl ether	**50.3**	ug/L	1.0	2		01/07/21 13:15	108-20-3	
Ethylbenzene	**12.8**	ug/L	1.0	2		01/07/21 13:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	2		01/07/21 13:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	2		01/07/21 13:15	98-82-8	
Methylene Chloride	ND	ug/L	4.0	2		01/07/21 13:15	75-09-2	
Methyl-tert-butyl ether	**13.2**	ug/L	1.0	2		01/07/21 13:15	1634-04-4	
Naphthalene	ND	ug/L	4.0	2		01/07/21 13:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	2		01/07/21 13:15	103-65-1	
Styrene	ND	ug/L	1.0	2		01/07/21 13:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	2		01/07/21 13:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	2		01/07/21 13:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	2		01/07/21 13:15	127-18-4	
Toluene	**233**	ug/L	1.0	2		01/07/21 13:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	2		01/07/21 13:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	2		01/07/21 13:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	2		01/07/21 13:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	2		01/07/21 13:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	2		01/07/21 13:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		01/07/21 13:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	2		01/07/21 13:15	96-18-4	
1,2,4-Trimethylbenzene	**7.1**	ug/L	1.0	2		01/07/21 13:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	2		01/07/21 13:15	108-67-8	
Vinyl chloride	ND	ug/L	2.0	2		01/07/21 13:15	75-01-4	
m&p-Xylene	**50.2**	ug/L	2.0	2		01/07/21 13:15	179601-23-1	
o-Xylene	**29.6**	ug/L	1.0	2		01/07/21 13:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	2		01/07/21 13:15	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	2		01/07/21 13:15	460-00-4	
Toluene-d8 (S)	104	%	70-130	2		01/07/21 13:15	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-29 **Lab ID: 92514898004** Collected: 01/05/21 14:07 Received: 01/05/21 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	01/10/21 04:47	01/10/21 04:47		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 04:47	01/10/21 04:47		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 04:47	01/10/21 04:47	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 04:47	01/10/21 04:47	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	100	%	70.0-130	1	01/10/21 04:47	01/10/21 04:47	615-59-8FID	
2,5-Dibromotoluene (PID)	86.3	%	70.0-130	1	01/10/21 04:47	01/10/21 04:47	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.1**	ug/L	5.0	1	01/07/21 02:07	01/07/21 17:43	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 14:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 14:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 14:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 14:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 14:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 14:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 14:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 14:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 14:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 14:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 14:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 14:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 14:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 14:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 14:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 14:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 14:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 14:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 14:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 14:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 14:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 14:55	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-29 **Lab ID: 92514898004** Collected: 01/05/21 14:07 Received: 01/05/21 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		01/06/21 14:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 14:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 14:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 14:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 14:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 14:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 14:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 14:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 14:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 14:55	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 14:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 14:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 14:55	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 14:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 14:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 14:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 14:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 14:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 14:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 14:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 14:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 14:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 14:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/06/21 14:55	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/06/21 14:55	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/06/21 14:55	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-43 **Lab ID: 92514898005** Collected: 01/05/21 15:25 Received: 01/05/21 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	01/10/21 05:20	01/10/21 05:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 05:20	01/10/21 05:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 05:20	01/10/21 05:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 05:20	01/10/21 05:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.8	%	70.0-130	1	01/10/21 05:20	01/10/21 05:20	615-59-8FID	
2,5-Dibromotoluene (PID)	85.4	%	70.0-130	1	01/10/21 05:20	01/10/21 05:20	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	01/08/21 01:37	01/09/21 18:21	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 15:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 15:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 15:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 15:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 15:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 15:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 15:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 15:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 15:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 15:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 15:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 15:13	75-00-3	
Chloroform	**1.2**	ug/L	0.50	1		01/06/21 15:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 15:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 15:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 15:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 15:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 15:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 15:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 15:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 15:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 15:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 15:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 15:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 15:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 15:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 15:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 15:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 15:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 15:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 15:13	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

Sample: MW-43 **Lab ID: 92514898005** Collected: 01/05/21 15:25 Received: 01/05/21 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		01/06/21 15:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 15:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 15:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 15:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 15:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 15:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 15:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 15:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 15:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 15:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 15:13	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 15:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 15:13	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 15:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 15:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 15:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 15:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 15:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 15:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 15:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 15:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 15:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 15:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 15:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 15:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 15:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/06/21 15:13	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 15:13	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 15:13	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-41 **Lab ID: 92514898006** Collected: 01/05/21 10:00 Received: 01/05/21 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	01/10/21 05:54	01/10/21 05:54		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 05:54	01/10/21 05:54		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 05:54	01/10/21 05:54	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 05:54	01/10/21 05:54	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.9	%	70.0-130	1	01/10/21 05:54	01/10/21 05:54	615-59-8FID	
2,5-Dibromotoluene (PID)	83.4	%	70.0-130	1	01/10/21 05:54	01/10/21 05:54	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**70.9**	ug/L	5.0	1	01/08/21 01:37	01/09/21 18:24	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 15:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 15:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 15:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 15:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 15:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 15:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 15:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 15:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 15:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 15:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 15:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 15:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 15:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 15:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 15:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 15:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 15:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 15:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 15:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 15:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 15:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 15:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 15:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 15:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 15:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 15:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 15:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 15:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 15:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 15:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 15:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 15:31	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 (1/5/21)
Pace Project No.: 92514898

Sample: MW-41 **Lab ID: 92514898006** Collected: 01/05/21 10:00 Received: 01/05/21 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		01/06/21 15:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 15:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 15:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 15:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 15:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 15:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 15:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 15:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 15:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 15:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 15:31	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 15:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 15:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 15:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 15:31	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 15:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 15:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 15:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 15:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 15:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 15:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 15:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 15:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 15:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 15:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 15:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 15:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 15:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/06/21 15:31	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 15:31	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 15:31	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 (1/5/21)
Pace Project No.: 92514898

Sample: Dup-1-20210105 **Lab ID: 92514898007** Collected: 01/05/21 00:00 Received: 01/05/21 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	01/10/21 06:27	01/10/21 06:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 06:27	01/10/21 06:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 06:27	01/10/21 06:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 06:27	01/10/21 06:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.1	%	70.0-130	1	01/10/21 06:27	01/10/21 06:27	615-59-8FID	
2,5-Dibromotoluene (PID)	83.8	%	70.0-130	1	01/10/21 06:27	01/10/21 06:27	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	01/08/21 01:37	01/09/21 18:27	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 16:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 16:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 16:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 16:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 16:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 16:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 16:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 16:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 16:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 16:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 16:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 16:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 16:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 16:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 16:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 16:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 16:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 16:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 16:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 16:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 16:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 16:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 16:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 16:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 16:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 16:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 16:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 16:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 16:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 16:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 16:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 16:07	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

Sample: Dup-1-20210105 **Lab ID: 92514898007** Collected: 01/05/21 00:00 Received: 01/05/21 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		01/06/21 16:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 16:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 16:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 16:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 16:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 16:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 16:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 16:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 16:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 16:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 16:07	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 16:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 16:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 16:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 16:07	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 16:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 16:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 16:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 16:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 16:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 16:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 16:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 16:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 16:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 16:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 16:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 16:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 16:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/06/21 16:07	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		01/06/21 16:07	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 16:07	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

Sample: FB-1-20210105 **Lab ID: 92514898008** Collected: 01/05/21 15:55 Received: 01/05/21 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	01/09/21 21:23	01/09/21 21:23		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 21:23	01/09/21 21:23		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 21:23	01/09/21 21:23	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 21:23	01/09/21 21:23	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.2	%	70.0-130	1	01/09/21 21:23	01/09/21 21:23	615-59-8FID	
2,5-Dibromotoluene (PID)	81.6	%	70.0-130	1	01/09/21 21:23	01/09/21 21:23	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 22:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 22:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 22:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 22:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 22:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 22:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 22:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 22:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 22:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 22:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 22:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 22:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 22:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 22:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 22:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 22:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 22:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 22:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 22:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 22:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 22:07	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 (1/5/21)
Pace Project No.: 92514898

Sample: FB-1-20210105 **Lab ID: 92514898008** Collected: 01/05/21 15:55 Received: 01/05/21 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		01/06/21 22:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 22:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 22:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 22:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 22:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 22:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 22:07	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 22:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 22:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 22:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 22:07	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 22:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 22:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 22:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 22:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 22:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 22:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 22:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 22:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 22:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 22:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 22:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 22:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 22:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 22:07	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/06/21 22:07	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 22:07	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

Sample: Trip Blank **Lab ID: 92514898009** Collected: 01/05/21 00:00 Received: 01/05/21 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		01/06/21 22:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 22:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 22:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 22:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 22:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 22:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 22:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 22:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 22:25	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 22:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 22:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 22:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 22:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 22:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 22:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 22:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 22:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 22:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 22:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 22:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 22:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 22:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 22:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 22:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 22:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 22:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 22:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 22:25	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 22:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 22:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 22:25	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

Sample: Trip Blank **Lab ID: 92514898009** Collected: 01/05/21 00:00 Received: 01/05/21 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		01/06/21 22:25	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 22:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 22:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 22:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 22:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 22:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 22:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 22:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 22:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 22:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 22:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 22:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 22:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 22:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/06/21 22:25	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/06/21 22:25	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 22:25	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: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

QC Batch: 1603010
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92514898001, 92514898002, 92514898003, 92514898004, 92514898005, 92514898006, 92514898007, 92514898008

METHOD BLANK: R3611200-3 Matrix: Water
Associated Lab Samples: 92514898001, 92514898002, 92514898003, 92514898004, 92514898005, 92514898006, 92514898007, 92514898008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 20:50	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 20:50	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 20:50	
Total VPH	ug/L	ND	100	01/09/21 20:50	
2,5-Dibromotoluene (FID)	%	88.2	70.0-130	01/09/21 20:50	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 20:50	

LABORATORY CONTROL SAMPLE & LCSD: R3611200-1 R3611200-2

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	1030	86.7	85.8	70.0-130	0.966	25	
Aliphatic (C09-C12)	ug/L	1400	1490	1450	106	104	70.0-130	2.72	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	184	93.0	92.0	70.0-130	1.08	25	
Total VPH	ug/L	2800	2720	2660	97.1	95.0	70.0-130	2.23	25	
2,5-Dibromotoluene (FID)	%				96.7	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.2	85.0	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

QC Batch: 591105 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514898001, 92514898002, 92514898003, 92514898004

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514898001, 92514898002, 92514898003, 92514898004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

QC Batch: 591415
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514898005, 92514898006, 92514898007

METHOD BLANK: 3122329 Matrix: Water
Associated Lab Samples: 92514898005, 92514898006, 92514898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/09/21 18:14	

LABORATORY CONTROL SAMPLE: 3122330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	475	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122331 3122332

Parameter	Units	92515170002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	13.0	500	500	474	478	92	93	75-125	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

QC Batch: 590897
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514898001, 92514898002, 92514898004, 92514898005, 92514898006, 92514898007

METHOD BLANK: 3119484 Matrix: Water
Associated Lab Samples: 92514898001, 92514898002, 92514898004, 92514898005, 92514898006, 92514898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1-Dichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,1-Dichloroethene	ug/L	ND	0.50	01/06/21 10:44	
1,1-Dichloropropene	ug/L	ND	0.50	01/06/21 10:44	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/06/21 10:44	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/06/21 10:44	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/06/21 10:44	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/06/21 10:44	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dichloroethane	ug/L	ND	0.50	01/06/21 10:44	
1,2-Dichloropropane	ug/L	ND	0.50	01/06/21 10:44	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/06/21 10:44	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
1,3-Dichloropropane	ug/L	ND	0.50	01/06/21 10:44	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
2,2-Dichloropropane	ug/L	ND	0.50	01/06/21 10:44	
2-Chlorotoluene	ug/L	ND	0.50	01/06/21 10:44	
4-Chlorotoluene	ug/L	ND	0.50	01/06/21 10:44	
Benzene	ug/L	ND	0.50	01/06/21 10:44	
Bromobenzene	ug/L	ND	0.50	01/06/21 10:44	
Bromochloromethane	ug/L	ND	0.50	01/06/21 10:44	
Bromodichloromethane	ug/L	ND	0.50	01/06/21 10:44	
Bromoform	ug/L	ND	0.50	01/06/21 10:44	
Bromomethane	ug/L	ND	5.0	01/06/21 10:44	
Carbon tetrachloride	ug/L	ND	0.50	01/06/21 10:44	
Chlorobenzene	ug/L	ND	0.50	01/06/21 10:44	
Chloroethane	ug/L	ND	1.0	01/06/21 10:44	
Chloroform	ug/L	ND	0.50	01/06/21 10:44	
Chloromethane	ug/L	ND	1.0	01/06/21 10:44	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 10:44	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 10:44	
Dibromochloromethane	ug/L	ND	0.50	01/06/21 10:44	
Dibromomethane	ug/L	ND	0.50	01/06/21 10:44	
Dichlorodifluoromethane	ug/L	ND	0.50	01/06/21 10:44	
Diisopropyl ether	ug/L	ND	0.50	01/06/21 10:44	

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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 (1/5/21)
Pace Project No.: 92514898

METHOD BLANK: 3119484 Matrix: Water
Associated Lab Samples: 92514898001, 92514898002, 92514898004, 92514898005, 92514898006, 92514898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/06/21 10:44	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/06/21 10:44	
m&p-Xylene	ug/L	ND	1.0	01/06/21 10:44	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/06/21 10:44	
Methylene Chloride	ug/L	ND	2.0	01/06/21 10:44	
n-Butylbenzene	ug/L	ND	0.50	01/06/21 10:44	
n-Propylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Naphthalene	ug/L	ND	2.0	01/06/21 10:44	
o-Xylene	ug/L	ND	0.50	01/06/21 10:44	
sec-Butylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Styrene	ug/L	ND	0.50	01/06/21 10:44	
tert-Butylbenzene	ug/L	ND	0.50	01/06/21 10:44	
Tetrachloroethene	ug/L	ND	0.50	01/06/21 10:44	
Toluene	ug/L	ND	0.50	01/06/21 10:44	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 10:44	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 10:44	
Trichloroethene	ug/L	ND	0.50	01/06/21 10:44	
Trichlorofluoromethane	ug/L	ND	1.0	01/06/21 10:44	
Vinyl chloride	ug/L	ND	1.0	01/06/21 10:44	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/06/21 10:44	
4-Bromofluorobenzene (S)	%	99	70-130	01/06/21 10:44	
Toluene-d8 (S)	%	102	70-130	01/06/21 10:44	

LABORATORY CONTROL SAMPLE: 3119485

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	57.5	115	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	58.3	117	60-140	
1,1-Dichloroethane	ug/L	50	59.8	120	60-140	
1,1-Dichloroethene	ug/L	50	57.6	115	60-140	
1,1-Dichloropropene	ug/L	50	60.0	120	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.3	107	60-140	
1,2,3-Trichloropropane	ug/L	50	49.0	98	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.3	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.8	98	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.6	117	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	60-140	
1,2-Dichlorobenzene	ug/L	50	52.1	104	60-140	
1,2-Dichloroethane	ug/L	50	50.2	100	60-140	
1,2-Dichloropropane	ug/L	50	57.2	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.1	98	60-140	

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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 (1/5/21)
Pace Project No.: 92514898

LABORATORY CONTROL SAMPLE: 3119485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,3-Dichloropropane	ug/L	50	50.0	100	60-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	60-140	
2,2-Dichloropropane	ug/L	50	59.1	118	60-140	
2-Chlorotoluene	ug/L	50	50.3	101	60-140	
4-Chlorotoluene	ug/L	50	49.1	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	49.7	99	60-140	
Bromochloromethane	ug/L	50	64.7	129	60-140	
Bromodichloromethane	ug/L	50	53.6	107	60-140	
Bromoform	ug/L	50	52.3	105	60-140	
Bromomethane	ug/L	50	46.1	92	60-140	
Carbon tetrachloride	ug/L	50	51.1	102	60-140	
Chlorobenzene	ug/L	50	49.6	99	60-140	
Chloroethane	ug/L	50	33.6	67	60-140	
Chloroform	ug/L	50	57.5	115	60-140	
Chloromethane	ug/L	50	49.7	99	60-140	
cis-1,2-Dichloroethene	ug/L	50	56.3	113	60-140	
cis-1,3-Dichloropropene	ug/L	50	59.2	118	60-140	
Dibromochloromethane	ug/L	50	51.0	102	60-140	
Dibromomethane	ug/L	50	61.6	123	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	56.3	113	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.2	104	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	60-140	
m&p-Xylene	ug/L	100	96.1	96	60-140	
Methyl-tert-butyl ether	ug/L	50	59.6	119	60-140	
Methylene Chloride	ug/L	50	57.2	114	60-140	
n-Butylbenzene	ug/L	50	49.7	99	60-140	
n-Propylbenzene	ug/L	50	48.6	97	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	49.6	99	60-140	
sec-Butylbenzene	ug/L	50	49.0	98	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	41.3	83	60-140	
Tetrachloroethene	ug/L	50	49.7	99	60-140	
Toluene	ug/L	50	55.6	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.7	115	60-140	
trans-1,3-Dichloropropene	ug/L	50	57.1	114	60-140	
Trichloroethene	ug/L	50	56.9	114	60-140	
Trichlorofluoromethane	ug/L	50	45.8	92	60-140	
Vinyl chloride	ug/L	50	50.8	102	60-140	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119486 3119487

Parameter	Units	92514571001 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	<211	10000	10000	10800	10700	108	107	60-140	1	
1,1,1-Trichloroethane	ug/L	<139	10000	10000	13400	13200	134	132	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	<96.5	10000	10000	10300	10600	103	106	60-140	3	
1,1,2-Trichloroethane	ug/L	<116	10000	10000	12500	13100	125	131	60-140	5	
1,1-Dichloroethane	ug/L	<122	10000	10000	13600	13900	136	139	60-140	2	
1,1-Dichloroethene	ug/L	<109	10000	10000	13500	13700	135	137	60-140	1	
1,1-Dichloropropene	ug/L	<174	10000	10000	13700	14200	137	142	60-140	3	M1
1,2,3-Trichlorobenzene	ug/L	<390	10000	10000	10100	11100	101	111	60-140	9	
1,2,3-Trichloropropane	ug/L	<136	10000	10000	10300	10200	103	102	60-140	1	
1,2,4-Trichlorobenzene	ug/L	<218	10000	10000	10300	11100	103	111	60-140	7	
1,2,4-Trimethylbenzene	ug/L	3560	10000	10000	14300	14400	107	109	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<192	10000	10000	10700	11500	107	115	60-140	6	
1,2-Dibromoethane (EDB)	ug/L	<116	10000	10000	11000	11000	110	110	60-140	1	
1,2-Dichlorobenzene	ug/L	<120	10000	10000	11000	11200	110	112	60-140	2	
1,2-Dichloroethane	ug/L	<132	10000	10000	11100	11300	111	113	60-140	2	
1,2-Dichloropropane	ug/L	<91.5	10000	10000	12400	13100	124	131	60-140	5	
1,3,5-Trimethylbenzene	ug/L	<114	10000	10000	11800	11900	118	119	60-140	1	
1,3-Dichlorobenzene	ug/L	<125	10000	10000	11000	11100	110	111	60-140	1	
1,3-Dichloropropane	ug/L	<170	10000	10000	10700	11000	107	110	60-140	3	
1,4-Dichlorobenzene	ug/L	<124	10000	10000	10700	10900	107	109	60-140	2	
2,2-Dichloropropane	ug/L	<140	10000	10000	11900	12000	119	120	60-140	1	
2-Chlorotoluene	ug/L	<104	10000	10000	11300	11400	113	114	60-140	1	
4-Chlorotoluene	ug/L	<103	10000	10000	10600	10700	106	107	60-140	1	
Benzene	ug/L	3080	10000	10000	15900	16200	128	131	60-140	2	
Bromobenzene	ug/L	<108	10000	10000	11000	11100	110	111	60-140	0	
Bromochloromethane	ug/L	<129	10000	10000	13900	14200	139	142	60-140	2	M1
Bromodichloromethane	ug/L	<92.5	10000	10000	11600	12000	116	120	60-140	3	
Bromoform	ug/L	<202	10000	10000	10600	10600	106	106	60-140	1	
Bromomethane	ug/L	<860	10000	10000	10700	11800	107	118	60-140	10	
Carbon tetrachloride	ug/L	<116	10000	10000	12000	12300	120	123	60-140	3	
Chlorobenzene	ug/L	<112	10000	10000	11000	11100	110	111	60-140	0	
Chloroethane	ug/L	<292	10000	10000	10800	10800	108	108	60-140	0	
Chloroform	ug/L	<176	10000	10000	13000	13200	130	132	60-140	2	
Chloromethane	ug/L	<208	10000	10000	10900	11000	109	110	60-140	1	
cis-1,2-Dichloroethene	ug/L	<104	10000	10000	12900	13000	129	130	60-140	1	
cis-1,3-Dichloropropene	ug/L	<178	10000	10000	12500	13000	125	130	60-140	4	
Dibromochloromethane	ug/L	<201	10000	10000	10700	10800	107	108	60-140	1	
Dibromomethane	ug/L	<155	10000	10000	12800	13600	128	136	60-140	6	
Dichlorodifluoromethane	ug/L	<142	10000	10000	10600	10600	106	106	60-140	0	
Diisopropyl ether	ug/L	187J	10000	10000	12300	12600	121	124	60-140	2	
Ethylbenzene	ug/L	5290	10000	10000	16000	16200	108	110	60-140	1	
Hexachloro-1,3-butadiene	ug/L	<600	10000	10000	10800	11300	108	113	60-140	4	
Isopropylbenzene (Cumene)	ug/L	<119	10000	10000	11100	11200	111	112	60-140	0	
m&p-Xylene	ug/L	21500	20000	20000	42600	43600	106	111	60-140	2	
Methyl-tert-butyl ether	ug/L	<222	10000	10000	12500	12800	125	128	60-140	2	
Methylene Chloride	ug/L	<750	10000	10000	13300	13400	133	134	60-140	0	

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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 (1/5/21)
Pace Project No.: 92514898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119486 3119487

Parameter	Units	92514571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<176	10000	10000	10500	10600	105	106	60-140	1	
n-Propylbenzene	ug/L	<120	10000	10000	11100	11200	111	112	60-140	1	
Naphthalene	ug/L	615J	10000	10000	10700	11900	101	112	60-140	10	
o-Xylene	ug/L	8630	10000	10000	19700	19800	111	112	60-140	0	
sec-Butylbenzene	ug/L	<123	10000	10000	11000	11100	110	111	60-140	1	
Styrene	ug/L	211J	10000	10000	11100	11200	109	110	60-140	1	
tert-Butylbenzene	ug/L	<125	10000	10000	9360	9390	94	94	60-140	0	
Tetrachloroethene	ug/L	<116	10000	10000	11200	11000	112	110	60-140	1	
Toluene	ug/L	85500	10000	10000	96900	102000	114	161	60-140	5	E,M1
trans-1,2-Dichloroethene	ug/L	<128	10000	10000	13500	13800	135	138	60-140	2	
trans-1,3-Dichloropropene	ug/L	<197	10000	10000	11800	12300	118	123	60-140	4	
Trichloroethene	ug/L	<116	10000	10000	12900	13300	129	133	60-140	3	
Trichlorofluoromethane	ug/L	<168	10000	10000	12300	12400	123	124	60-140	1	
Vinyl chloride	ug/L	<204	10000	10000	12200	12500	122	125	60-140	2	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130		
4-Bromofluorobenzene (S)	%						99	101	70-130		
Toluene-d8 (S)	%						101	104	70-130		

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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 (1/5/21)
Pace Project No.: 92514898

QC Batch: 590898
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514898008, 92514898009

METHOD BLANK: 3119494 Matrix: Water
Associated Lab Samples: 92514898008, 92514898009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/06/21 21:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/06/21 21:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/06/21 21:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
1,3-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
2,2-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
2-Chlorotoluene	ug/L	ND	0.50	01/06/21 21:49	
4-Chlorotoluene	ug/L	ND	0.50	01/06/21 21:49	
Benzene	ug/L	ND	0.50	01/06/21 21:49	
Bromobenzene	ug/L	ND	0.50	01/06/21 21:49	
Bromochloromethane	ug/L	ND	0.50	01/06/21 21:49	
Bromodichloromethane	ug/L	ND	0.50	01/06/21 21:49	
Bromoform	ug/L	ND	0.50	01/06/21 21:49	
Bromomethane	ug/L	ND	5.0	01/06/21 21:49	
Carbon tetrachloride	ug/L	ND	0.50	01/06/21 21:49	
Chlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
Chloroethane	ug/L	ND	1.0	01/06/21 21:49	
Chloroform	ug/L	ND	0.50	01/06/21 21:49	
Chloromethane	ug/L	ND	1.0	01/06/21 21:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
Dibromochloromethane	ug/L	ND	0.50	01/06/21 21:49	
Dibromomethane	ug/L	ND	0.50	01/06/21 21:49	
Dichlorodifluoromethane	ug/L	ND	0.50	01/06/21 21:49	
Diisopropyl ether	ug/L	ND	0.50	01/06/21 21:49	

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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 (1/5/21)
Pace Project No.: 92514898

METHOD BLANK: 3119494 Matrix: Water
Associated Lab Samples: 92514898008, 92514898009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/06/21 21:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/06/21 21:49	
m&p-Xylene	ug/L	ND	1.0	01/06/21 21:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/06/21 21:49	
Methylene Chloride	ug/L	ND	2.0	01/06/21 21:49	
n-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
n-Propylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Naphthalene	ug/L	ND	2.0	01/06/21 21:49	
o-Xylene	ug/L	ND	0.50	01/06/21 21:49	
sec-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Styrene	ug/L	ND	0.50	01/06/21 21:49	
tert-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Tetrachloroethene	ug/L	ND	0.50	01/06/21 21:49	
Toluene	ug/L	ND	0.50	01/06/21 21:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
Trichloroethene	ug/L	ND	0.50	01/06/21 21:49	
Trichlorofluoromethane	ug/L	ND	1.0	01/06/21 21:49	
Vinyl chloride	ug/L	ND	1.0	01/06/21 21:49	
1,2-Dichloroethane-d4 (S)	%	94	70-130	01/06/21 21:49	
4-Bromofluorobenzene (S)	%	98	70-130	01/06/21 21:49	
Toluene-d8 (S)	%	102	70-130	01/06/21 21:49	

LABORATORY CONTROL SAMPLE: 3119495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	60-140	
1,1,1-Trichloroethane	ug/L	50	61.3	123	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.3	105	60-140	
1,1,2-Trichloroethane	ug/L	50	62.2	124	60-140	
1,1-Dichloroethane	ug/L	50	63.8	128	60-140	
1,1-Dichloroethene	ug/L	50	61.1	122	60-140	
1,1-Dichloropropene	ug/L	50	63.1	126	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	60-140	
1,2,3-Trichloropropane	ug/L	50	50.2	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.9	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.8	100	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.0	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	60-140	
1,2-Dichlorobenzene	ug/L	50	52.7	105	60-140	
1,2-Dichloroethane	ug/L	50	53.5	107	60-140	
1,2-Dichloropropane	ug/L	50	61.1	122	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.4	101	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

LABORATORY CONTROL SAMPLE: 3119495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.3	105	60-140	
1,3-Dichloropropane	ug/L	50	52.1	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.9	102	60-140	
2,2-Dichloropropane	ug/L	50	59.1	118	60-140	
2-Chlorotoluene	ug/L	50	51.3	103	60-140	
4-Chlorotoluene	ug/L	50	50.1	100	60-140	
Benzene	ug/L	50	59.5	119	60-140	
Bromobenzene	ug/L	50	51.2	102	60-140	
Bromochloromethane	ug/L	50	67.5	135	60-140	
Bromodichloromethane	ug/L	50	56.8	114	60-140	
Bromoform	ug/L	50	53.6	107	60-140	
Bromomethane	ug/L	50	50.7	101	60-140	
Carbon tetrachloride	ug/L	50	54.5	109	60-140	
Chlorobenzene	ug/L	50	51.5	103	60-140	
Chloroethane	ug/L	50	35.4	71	60-140	
Chloroform	ug/L	50	62.7	125	60-140	
Chloromethane	ug/L	50	52.7	105	60-140	
cis-1,2-Dichloroethene	ug/L	50	60.1	120	60-140	
cis-1,3-Dichloropropene	ug/L	50	62.2	124	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	64.3	129	60-140	
Dichlorodifluoromethane	ug/L	50	47.8	96	60-140	
Diisopropyl ether	ug/L	50	59.5	119	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.4	105	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	60-140	
m&p-Xylene	ug/L	100	99.3	99	60-140	
Methyl-tert-butyl ether	ug/L	50	63.6	127	60-140	
Methylene Chloride	ug/L	50	60.9	122	60-140	
n-Butylbenzene	ug/L	50	50.1	100	60-140	
n-Propylbenzene	ug/L	50	49.4	99	60-140	
Naphthalene	ug/L	50	53.9	108	60-140	
o-Xylene	ug/L	50	51.5	103	60-140	
sec-Butylbenzene	ug/L	50	50.3	101	60-140	
Styrene	ug/L	50	51.9	104	60-140	
tert-Butylbenzene	ug/L	50	42.7	85	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	59.5	119	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.6	123	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.3	119	60-140	
Trichloroethene	ug/L	50	60.3	121	60-140	
Trichlorofluoromethane	ug/L	50	50.2	100	60-140	
Vinyl chloride	ug/L	50	55.3	111	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			103	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119496 3119497

Parameter	Units	92514450005 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	<42.2	2000	2000	2050	2070	102	103	60-140	1	
1,1,1-Trichloroethane	ug/L	<27.8	2000	2000	2530	2590	126	130	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	<19.3	2000	2000	1960	2020	98	101	60-140	3	
1,1,2-Trichloroethane	ug/L	<23.2	2000	2000	2390	2500	119	125	60-140	5	
1,1-Dichloroethane	ug/L	<24.4	2000	2000	2550	2660	128	133	60-140	4	
1,1-Dichloroethene	ug/L	<21.8	2000	2000	2540	2600	127	130	60-140	3	
1,1-Dichloropropene	ug/L	<34.8	2000	2000	2620	2700	131	135	60-140	3	
1,2,3-Trichlorobenzene	ug/L	<78.1	2000	2000	1880	1980	94	99	60-140	5	
1,2,3-Trichloropropane	ug/L	<27.1	2000	2000	1930	2020	96	101	60-140	5	
1,2,4-Trichlorobenzene	ug/L	<43.6	2000	2000	1940	1990	97	99	60-140	3	
1,2,4-Trimethylbenzene	ug/L	817	2000	2000	2860	2840	102	101	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<38.5	2000	2000	2000	2160	100	108	60-140	8	
1,2-Dibromoethane (EDB)	ug/L	<23.1	2000	2000	2030	2080	101	104	60-140	2	
1,2-Dichlorobenzene	ug/L	<24.0	2000	2000	2000	2050	100	102	60-140	2	
1,2-Dichloroethane	ug/L	<26.3	2000	2000	2070	2220	104	111	60-140	7	
1,2-Dichloropropane	ug/L	<18.3	2000	2000	2380	2480	119	124	60-140	4	
1,3,5-Trimethylbenzene	ug/L	<22.7	2000	2000	2210	2230	110	111	60-140	1	
1,3-Dichlorobenzene	ug/L	<25.0	2000	2000	1990	2030	100	102	60-140	2	
1,3-Dichloropropane	ug/L	<34.1	2000	2000	1970	2100	99	105	60-140	6	
1,4-Dichlorobenzene	ug/L	<24.9	2000	2000	1940	1990	97	99	60-140	3	
2,2-Dichloropropane	ug/L	<28.1	2000	2000	1940	1990	97	99	60-140	3	
2-Chlorotoluene	ug/L	<20.7	2000	2000	2090	2110	104	105	60-140	1	
4-Chlorotoluene	ug/L	<20.6	2000	2000	1930	1960	97	98	60-140	1	
Benzene	ug/L	1060	2000	2000	3480	3580	121	126	60-140	3	
Bromobenzene	ug/L	<21.5	2000	2000	2040	2060	102	103	60-140	1	
Bromochloromethane	ug/L	<25.8	2000	2000	2650	2760	133	138	60-140	4	
Bromodichloromethane	ug/L	<18.5	2000	2000	2190	2300	110	115	60-140	5	
Bromoform	ug/L	<40.5	2000	2000	1950	2030	97	102	60-140	4	
Bromomethane	ug/L	<172	2000	2000	1990	2180	99	109	60-140	9	
Carbon tetrachloride	ug/L	<23.2	2000	2000	2200	2320	110	116	60-140	5	
Chlorobenzene	ug/L	<22.5	2000	2000	2060	2100	103	105	60-140	2	
Chloroethane	ug/L	<58.5	2000	2000	1990	1970	99	99	60-140	1	
Chloroform	ug/L	<35.3	2000	2000	2470	2550	123	128	60-140	3	
Chloromethane	ug/L	<41.5	2000	2000	2120	2200	106	110	60-140	4	
cis-1,2-Dichloroethene	ug/L	<20.7	2000	2000	2450	2510	123	126	60-140	2	
cis-1,3-Dichloropropene	ug/L	<35.7	2000	2000	2320	2430	116	121	60-140	5	
Dibromochloromethane	ug/L	<40.2	2000	2000	2010	2000	101	100	60-140	1	
Dibromomethane	ug/L	<31.0	2000	2000	2470	2590	124	130	60-140	5	
Dichlorodifluoromethane	ug/L	<28.4	2000	2000	2000	2050	100	103	60-140	2	
Diisopropyl ether	ug/L	39.3J	2000	2000	2330	2420	115	119	60-140	3	
Ethylbenzene	ug/L	557	2000	2000	2560	2590	100	102	60-140	1	
Hexachloro-1,3-butadiene	ug/L	<120	2000	2000	2050	2080	102	104	60-140	2	
Isopropylbenzene (Cumene)	ug/L	<23.8	2000	2000	2050	2100	103	105	60-140	3	
m&p-Xylene	ug/L	1920	4000	4000	5960	6010	101	102	60-140	1	
Methyl-tert-butyl ether	ug/L	89.1	2000	2000	2490	2590	120	125	60-140	4	
Methylene Chloride	ug/L	<150	2000	2000	2510	2570	126	129	60-140	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119496 3119497

Parameter	Units	92514450005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<35.3	2000	2000	1940	1950	97	98	60-140	1	
n-Propylbenzene	ug/L	<24.1	2000	2000	2020	2060	101	103	60-140	2	
Naphthalene	ug/L	578	2000	2000	2580	2710	100	107	60-140	5	
o-Xylene	ug/L	1170	2000	2000	3270	3280	105	105	60-140	0	
sec-Butylbenzene	ug/L	<24.6	2000	2000	2000	2060	100	103	60-140	3	
Styrene	ug/L	<25.6	2000	2000	2020	2070	101	104	60-140	3	
tert-Butylbenzene	ug/L	<25.0	2000	2000	1730	1740	87	87	60-140	0	
Tetrachloroethene	ug/L	<23.2	2000	2000	2060	2100	103	105	60-140	2	
Toluene	ug/L	9700	2000	2000	11800	11800	103	106	60-140	1	
trans-1,2-Dichloroethene	ug/L	<25.7	2000	2000	2570	2630	128	131	60-140	2	
trans-1,3-Dichloropropene	ug/L	<39.4	2000	2000	2210	2280	110	114	60-140	3	
Trichloroethene	ug/L	<23.2	2000	2000	2450	2510	123	125	60-140	2	
Trichlorofluoromethane	ug/L	<33.6	2000	2000	2290	2380	115	119	60-140	4	
Vinyl chloride	ug/L	<40.7	2000	2000	2320	2410	116	121	60-140	4	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130		
4-Bromofluorobenzene (S)	%						101	102	70-130		
Toluene-d8 (S)	%						102	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 (1/5/21)
Pace Project No.: 92514898

QC Batch: 591182
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514898003

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92514898003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
2,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
2-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
4-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
Benzene	ug/L	ND	0.50	01/07/21 10:15	
Bromobenzene	ug/L	ND	0.50	01/07/21 10:15	
Bromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromodichloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromoform	ug/L	ND	0.50	01/07/21 10:15	
Bromomethane	ug/L	ND	5.0	01/07/21 10:15	
Carbon tetrachloride	ug/L	ND	0.50	01/07/21 10:15	
Chlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
Chloroethane	ug/L	ND	1.0	01/07/21 10:15	
Chloroform	ug/L	ND	0.50	01/07/21 10:15	
Chloromethane	ug/L	ND	1.0	01/07/21 10:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Dibromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Dibromomethane	ug/L	ND	0.50	01/07/21 10:15	
Dichlorodifluoromethane	ug/L	ND	0.50	01/07/21 10:15	
Diisopropyl ether	ug/L	ND	0.50	01/07/21 10:15	

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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 (1/5/21)
Pace Project No.: 92514898

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92514898003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/07/21 10:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/07/21 10:15	
m&p-Xylene	ug/L	ND	1.0	01/07/21 10:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/07/21 10:15	
Methylene Chloride	ug/L	ND	2.0	01/07/21 10:15	
n-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
n-Propylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Naphthalene	ug/L	ND	2.0	01/07/21 10:15	
o-Xylene	ug/L	ND	0.50	01/07/21 10:15	
sec-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Styrene	ug/L	ND	0.50	01/07/21 10:15	
tert-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Tetrachloroethene	ug/L	ND	0.50	01/07/21 10:15	
Toluene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Trichloroethene	ug/L	ND	0.50	01/07/21 10:15	
Trichlorofluoromethane	ug/L	ND	1.0	01/07/21 10:15	
Vinyl chloride	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dichloroethane-d4 (S)	%	96	70-130	01/07/21 10:15	
4-Bromofluorobenzene (S)	%	98	70-130	01/07/21 10:15	
Toluene-d8 (S)	%	104	70-130	01/07/21 10:15	

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,1-Trichloroethane	ug/L	50	60.3	121	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	60.0	120	60-140	
1,1-Dichloroethane	ug/L	50	62.9	126	60-140	
1,1-Dichloroethene	ug/L	50	59.6	119	60-140	
1,1-Dichloropropene	ug/L	50	62.3	125	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.6	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.9	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	60-140	
1,2-Dichlorobenzene	ug/L	50	49.9	100	60-140	
1,2-Dichloroethane	ug/L	50	51.8	104	60-140	
1,2-Dichloropropane	ug/L	50	58.8	118	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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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 (1/5/21)
Pace Project No.: 92514898

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.5	99	60-140	
1,3-Dichloropropane	ug/L	50	49.9	100	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	48.7	97	60-140	
4-Chlorotoluene	ug/L	50	47.3	95	60-140	
Benzene	ug/L	50	58.0	116	60-140	
Bromobenzene	ug/L	50	48.6	97	60-140	
Bromochloromethane	ug/L	50	66.5	133	60-140	
Bromodichloromethane	ug/L	50	54.9	110	60-140	
Bromoform	ug/L	50	51.5	103	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	52.7	105	60-140	
Chlorobenzene	ug/L	50	49.7	99	60-140	
Chloroethane	ug/L	50	36.0	72	60-140	
Chloroform	ug/L	50	59.5	119	60-140	
Chloromethane	ug/L	50	54.4	109	60-140	
cis-1,2-Dichloroethene	ug/L	50	58.1	116	60-140	
cis-1,3-Dichloropropene	ug/L	50	60.5	121	60-140	
Dibromochloromethane	ug/L	50	50.9	102	60-140	
Dibromomethane	ug/L	50	61.3	123	60-140	
Dichlorodifluoromethane	ug/L	50	51.6	103	60-140	
Diisopropyl ether	ug/L	50	56.1	112	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	60-140	
m&p-Xylene	ug/L	100	96.4	96	60-140	
Methyl-tert-butyl ether	ug/L	50	59.4	119	60-140	
Methylene Chloride	ug/L	50	59.8	120	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.7	93	60-140	
Naphthalene	ug/L	50	51.6	103	60-140	
o-Xylene	ug/L	50	49.9	100	60-140	
sec-Butylbenzene	ug/L	50	46.8	94	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	39.6	79	60-140	
Tetrachloroethene	ug/L	50	50.1	100	60-140	
Toluene	ug/L	50	57.8	116	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.8	124	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Trichloroethene	ug/L	50	58.2	116	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	56.6	113	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

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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 (1/5/21)
Pace Project No.: 92514898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 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	100	100	106	107	106	107	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	100	100	135	133	135	133	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	103	105	103	105	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	100	100	127	133	127	133	60-140	5	
1,1-Dichloroethane	ug/L	ND	100	100	140	141	140	141	60-140	1	M1
1,1-Dichloroethene	ug/L	ND	100	100	140	139	140	139	60-140	0	
1,1-Dichloropropene	ug/L	ND	100	100	143	146	143	146	60-140	2	M1
1,2,3-Trichlorobenzene	ug/L	ND	100	100	96.4	102	96	102	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	100	100	103	100	103	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	98.0	105	98	105	60-140	7	
1,2,4-Trimethylbenzene	ug/L	28.9	100	100	135	137	106	108	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	107	113	107	113	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	108	109	108	109	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	100	100	104	106	104	106	60-140	2	
1,2-Dichloroethane	ug/L	ND	100	100	113	113	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	100	100	130	134	130	134	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	100	100	116	117	116	117	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	100	100	103	105	103	105	60-140	3	
1,3-Dichloropropane	ug/L	ND	100	100	107	109	107	109	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	100	100	102	102	102	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	100	100	123	121	123	121	60-140	2	
2-Chlorotoluene	ug/L	ND	100	100	107	109	107	109	60-140	2	
4-Chlorotoluene	ug/L	ND	100	100	101	102	101	102	60-140	1	
Benzene	ug/L	726	100	100	886	911	160	185	60-140	3	M1
Bromobenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Bromochloromethane	ug/L	ND	100	100	147	148	147	148	60-140	1	M1
Bromodichloromethane	ug/L	ND	100	100	117	122	117	122	60-140	4	
Bromoform	ug/L	ND	100	100	105	106	105	106	60-140	1	
Bromomethane	ug/L	ND	100	100	111	126	111	126	60-140	13	
Carbon tetrachloride	ug/L	ND	100	100	121	124	121	124	60-140	2	
Chlorobenzene	ug/L	ND	100	100	107	109	107	109	60-140	2	
Chloroethane	ug/L	ND	100	100	111	106	111	106	60-140	5	
Chloroform	ug/L	ND	100	100	137	135	135	134	60-140	1	
Chloromethane	ug/L	ND	100	100	122	123	122	123	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	100	100	132	133	132	133	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	100	100	129	131	129	131	60-140	2	
Dibromochloromethane	ug/L	ND	100	100	107	106	107	106	60-140	1	
Dibromomethane	ug/L	ND	100	100	136	139	136	139	60-140	2	
Dichlorodifluoromethane	ug/L	ND	100	100	109	109	109	109	60-140	0	
Diisopropyl ether	ug/L	108	100	100	240	239	132	131	60-140	1	
Ethylbenzene	ug/L	8.0	100	100	113	115	105	107	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	112	109	112	60-140	3	
Isopropylbenzene (Cumene)	ug/L	ND	100	100	108	109	108	109	60-140	1	
m&p-Xylene	ug/L	128	200	200	344	347	108	110	60-140	1	
Methyl-tert-butyl ether	ug/L	50.0	100	100	184	186	134	136	60-140	1	
Methylene Chloride	ug/L	ND	100	100	136	134	136	134	60-140	1	

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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 (1/5/21)
Pace Project No.: 92514898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	100	100	101	103	101	103	60-140	2	
n-Propylbenzene	ug/L	ND	100	100	105	107	105	107	60-140	2	
Naphthalene	ug/L	ND	100	100	101	110	94	102	60-140	8	
o-Xylene	ug/L	68.5	100	100	177	180	109	111	60-140	1	
sec-Butylbenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Styrene	ug/L	ND	100	100	106	107	106	107	60-140	1	
tert-Butylbenzene	ug/L	ND	100	100	90.4	91.4	90	91	60-140	1	
Tetrachloroethene	ug/L	ND	100	100	110	114	110	114	60-140	3	
Toluene	ug/L	96.1	100	100	229	236	133	140	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	100	100	142	139	142	139	60-140	2	M1
trans-1,3-Dichloropropene	ug/L	ND	100	100	121	126	121	126	60-140	4	
Trichloroethene	ug/L	ND	100	100	132	135	132	135	60-140	2	
Trichlorofluoromethane	ug/L	ND	100	100	126	128	126	128	60-140	2	
Vinyl chloride	ug/L	ND	100	100	124	126	124	126	60-140	2	
1,2-Dichloroethane-d4 (S)	%						97	96	70-130		
4-Bromofluorobenzene (S)	%						102	100	70-130		
Toluene-d8 (S)	%						103	105	70-130		

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

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
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (1/5/21)
Pace Project No.: 92514898

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514898001	**MW-58**	MADEPV	1603010	MADEP VPH	1603010
92514898002	**MW-59**	MADEPV	1603010	MADEP VPH	1603010
92514898003	**MW-52**	MADEPV	1603010	MADEP VPH	1603010
92514898004	**MW-29**	MADEPV	1603010	MADEP VPH	1603010
92514898005	**MW-43**	MADEPV	1603010	MADEP VPH	1603010
92514898006	**MW-41**	MADEPV	1603010	MADEP VPH	1603010
92514898007	**Dup-1-20210105**	MADEPV	1603010	MADEP VPH	1603010
92514898008	**FB-1-20210105**	MADEPV	1603010	MADEP VPH	1603010
92514898001	**MW-58**	EPA 3010A	591105	EPA 6010D	591117
92514898002	**MW-59**	EPA 3010A	591105	EPA 6010D	591117
92514898003	**MW-52**	EPA 3010A	591105	EPA 6010D	591117
92514898004	**MW-29**	EPA 3010A	591105	EPA 6010D	591117
92514898005	**MW-43**	EPA 3010A	591415	EPA 6010D	591431
92514898006	**MW-41**	EPA 3010A	591415	EPA 6010D	591431
92514898007	**Dup-1-20210105**	EPA 3010A	591415	EPA 6010D	591431
92514898001	**MW-58**	SM 6200B	590897		
92514898002	**MW-59**	SM 6200B	590897		
92514898003	**MW-52**	SM 6200B	591182		
92514898004	**MW-29**	SM 6200B	590897		
92514898005	**MW-43**	SM 6200B	590897		
92514898006	**MW-41**	SM 6200B	590897		
92514898007	**Dup-1-20210105**	SM 6200B	590897		
92514898008	**FB-1-20210105**	SM 6200B	590898		
92514898009	**Trip Blank**	SM 6200B	590898		

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92514898

92514898

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 1-5-21 AMP

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 92T064

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.8/5.8 **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): 4.7/5.7

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 FB did not come with metals containers

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#: 92514898

PM: NMG Due Date: 01/12/21

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

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	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	92514898
1	MW-58	GW	G	1/5/21	0930				8			X	X						X	X	X			001
2	MW-59				1035																			002
3	MW-52				1150																			003
4	MW-29				1407																			004
5	MW-43				1525																			005
6	MW-41				1000																			006
7	Dup-1-20210105				—																			007
8	FB-1-20210105				1555																			008
9	Trip Blank								1 (HCl) 2	Lab Provided.												X		009
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)
	Ben Weischer Aecom	1/5/20	1630	MD Pace HVL	1-5-21	16:30	4.7	Y	N	Y
							5.7			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Weischer

SIGNATURE of SAMPLER: [signature]

DATE Signed: 1/5/20

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

January 11, 2021

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

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92514955

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Angela 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.: 92514955

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.: 92514955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514955001	**MW-36D (96.5-103.5)**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514955002	**DUP-2**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514955003	**EB-1**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514955004	**FB-1**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514955005	**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 Incident
Pace Project No.: 92514955

Sample: MW-36D (96.5-103.5) **Lab ID: 92514955001** Collected: 01/05/21 17:00 Received: 01/06/21 08:15 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)	**280**	ug/L	100	1	01/08/21 21:38	01/08/21 21:38		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 21:38	01/08/21 21:38		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 21:38	01/08/21 21:38	TPHC9C10A	
Total VPH	**318**	ug/L	100	1	01/08/21 21:38	01/08/21 21:38	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.9	%	70.0-130	1	01/08/21 21:38	01/08/21 21:38	615-59-8FID	
2,5-Dibromotoluene (PID)	86.2	%	70.0-130	1	01/08/21 21:38	01/08/21 21:38	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**40.5**	ug/L	5.0	1	01/07/21 02:07	01/07/21 15:19	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 00:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 00:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 00:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 00:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 00:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 00:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 00:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 00:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 00:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 00:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 00:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 00:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 00:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 00:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 00:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 00:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 00:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 00:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 00:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 00:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 00:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 00:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 00:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 00:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 00:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 00:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 00:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 00:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 00:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 00:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 00:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 00:13	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 Incident
Pace Project No.: 92514955

Sample: MW-36D (96.5-103.5) **Lab ID: 92514955001** Collected: 01/05/21 17:00 Received: 01/06/21 08:15 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		01/07/21 00:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 00:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 00:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 00:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 00:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 00:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 00:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 00:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 00:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 00:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 00:13	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 00:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 00:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 00:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 00:13	127-18-4	
Toluene	**169**	ug/L	0.50	1		01/07/21 00:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 00:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 00:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 00:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 00:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 00:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 00:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 00:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 00:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 00:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 00:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 00:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 00:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/07/21 00:13	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 00:13	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/07/21 00:13	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 Incident
Pace Project No.: 92514955

Sample: DUP-2 **Lab ID: 92514955002** Collected: 01/05/21 00:00 Received: 01/06/21 08:15 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)	**281**	ug/L	100	1	01/08/21 22:12	01/08/21 22:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 22:12	01/08/21 22:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 22:12	01/08/21 22:12	TPHC9C10A	
Total VPH	**318**	ug/L	100	1	01/08/21 22:12	01/08/21 22:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.9	%	70.0-130	1	01/08/21 22:12	01/08/21 22:12	615-59-8FID	
2,5-Dibromotoluene (PID)	84.8	%	70.0-130	1	01/08/21 22:12	01/08/21 22:12	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**47.3**	ug/L	5.0	1	01/07/21 02:07	01/07/21 16:03	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 00:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 00:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 00:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 00:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 00:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 00:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 00:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 00:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 00:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 00:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 00:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 00:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 00:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 00:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 00:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 00:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 00:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 00:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 00:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 00:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 00:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 00:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 00:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 00:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 00:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 00:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 00:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 00:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 00:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 00:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 00:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 00:31	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 Incident
Pace Project No.: 92514955

Sample: DUP-2 **Lab ID: 92514955002** Collected: 01/05/21 00:00 Received: 01/06/21 08:15 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		01/07/21 00:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 00:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 00:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 00:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 00:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 00:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 00:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 00:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 00:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 00:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 00:31	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 00:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 00:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 00:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 00:31	127-18-4	
Toluene	**164**	ug/L	0.50	1		01/07/21 00:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 00:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 00:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 00:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 00:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 00:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 00:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 00:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 00:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 00:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 00:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 00:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 00:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/07/21 00:31	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/07/21 00:31	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/07/21 00:31	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 Incident
Pace Project No.: 92514955

Sample: EB-1 **Lab ID: 92514955003** Collected: 01/05/21 17:05 Received: 01/06/21 08:15 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	01/08/21 15:00	01/08/21 15:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 15:00	01/08/21 15:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 15:00	01/08/21 15:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 15:00	01/08/21 15:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.4	%	70.0-130	1	01/08/21 15:00	01/08/21 15:00	615-59-8FID	
2,5-Dibromotoluene (PID)	80.8	%	70.0-130	1	01/08/21 15:00	01/08/21 15:00	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	01/07/21 02:07	01/07/21 16:06	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 22:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 22:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 22:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 22:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 22:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 22:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 22:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 22:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 22:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 22:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 22:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 22:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 22:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 22:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 22:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 22:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 22:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 22:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 22:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 22:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 22:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 22:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 22:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 22:43	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-LI-2448 Incident
Pace Project No.: 92514955

Sample: EB-1 **Lab ID: 92514955003** Collected: 01/05/21 17:05 Received: 01/06/21 08:15 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		01/06/21 22:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 22:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 22:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 22:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 22:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 22:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 22:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 22:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 22:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 22:43	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 22:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 22:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 22:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 22:43	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 22:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 22:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 22:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 22:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 22:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 22:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 22:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 22:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 22:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 22:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 22:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 22:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 22:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/06/21 22:43	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/06/21 22:43	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		01/06/21 22:43	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 Incident
Pace Project No.: 92514955

Sample: FB-1 **Lab ID: 92514955004** Collected: 01/05/21 00:00 Received: 01/06/21 08:15 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	01/08/21 15:33	01/08/21 15:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 15:33	01/08/21 15:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 15:33	01/08/21 15:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 15:33	01/08/21 15:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.3	%	70.0-130	1	01/08/21 15:33	01/08/21 15:33	615-59-8FID	
2,5-Dibromotoluene (PID)	84.6	%	70.0-130	1	01/08/21 15:33	01/08/21 15:33	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	01/07/21 02:07	01/07/21 16:10	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 23:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 23:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 23:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 23:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 23:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 23:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 23:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 23:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 23:01	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 23:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 23:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 23:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 23:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 23:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 23:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 23:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:01	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92514955

Sample: FB-1 **Lab ID: 92514955004** Collected: 01/05/21 00:00 Received: 01/06/21 08:15 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		01/06/21 23:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 23:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 23:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 23:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 23:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 23:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 23:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 23:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 23:01	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 23:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 23:01	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 23:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 23:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 23:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 23:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 23:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 23:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 23:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		01/06/21 23:01	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/06/21 23:01	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 23:01	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 Incident
Pace Project No.: 92514955

Sample: Trip Blank **Lab ID: 92514955005** Collected: 01/05/21 00:00 Received: 01/06/21 08:15 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		01/06/21 23:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 23:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 23:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 23:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 23:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 23:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 23:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 23:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 23:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 23:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 23:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 23:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 23:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 23:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 23:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 23:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:19	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 23:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 23:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 23:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 23:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 23:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 23:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 23:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 23:19	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 23:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:19	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 Incident
Pace Project No.: 92514955

Sample: Trip Blank **Lab ID: 92514955005** Collected: 01/05/21 00:00 Received: 01/06/21 08:15 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		01/06/21 23:19	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 23:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 23:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 23:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 23:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 23:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 23:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 23:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		01/06/21 23:19	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 23:19	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		01/06/21 23:19	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-LI-2448 Incident
Pace Project No.: 92514955

QC Batch: 1602614 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92514955001, 92514955002, 92514955003, 92514955004

METHOD BLANK: R3611152-3 Matrix: Water
Associated Lab Samples: 92514955001, 92514955002, 92514955003, 92514955004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/08/21 13:26	
Aliphatic (C09-C12)	ug/L	ND	100	01/08/21 13:26	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/08/21 13:26	
Total VPH	ug/L	ND	100	01/08/21 13:26	
2,5-Dibromotoluene (FID)	%	95	70.0-130	01/08/21 13:26	
2,5-Dibromotoluene (PID)	%	82.3	70.0-130	01/08/21 13:26	

LABORATORY CONTROL SAMPLE & LCSD: R3611152-1 R3611152-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1310	1310	109	109	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1730	1730	124	124	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	208	208	104	104	70.0-130	0.00	25	
Total VPH	ug/L	2800	3250	3250	116	116	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				97.9	97.3	70.0-130			
2,5-Dibromotoluene (PID)	%				85.5	84.8	70.0-130			

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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.: 92514955

QC Batch: 591104 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514955001, 92514955002, 92514955003, 92514955004

METHOD BLANK: 3120775 Matrix: Water
Associated Lab Samples: 92514955001, 92514955002, 92514955003, 92514955004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 15:12	

LABORATORY CONTROL SAMPLE: 3120776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	468	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120777 3120778

Parameter	Units	92514955001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	40.5	500	500	508	472	93	86	75-125	7	

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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.: 92514955

QC Batch: 590898
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514955001, 92514955002, 92514955003, 92514955004, 92514955005

METHOD BLANK: 3119494 Matrix: Water
Associated Lab Samples: 92514955001, 92514955002, 92514955003, 92514955004, 92514955005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/06/21 21:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/06/21 21:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/06/21 21:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
1,3-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
2,2-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
2-Chlorotoluene	ug/L	ND	0.50	01/06/21 21:49	
4-Chlorotoluene	ug/L	ND	0.50	01/06/21 21:49	
Benzene	ug/L	ND	0.50	01/06/21 21:49	
Bromobenzene	ug/L	ND	0.50	01/06/21 21:49	
Bromochloromethane	ug/L	ND	0.50	01/06/21 21:49	
Bromodichloromethane	ug/L	ND	0.50	01/06/21 21:49	
Bromoform	ug/L	ND	0.50	01/06/21 21:49	
Bromomethane	ug/L	ND	5.0	01/06/21 21:49	
Carbon tetrachloride	ug/L	ND	0.50	01/06/21 21:49	
Chlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
Chloroethane	ug/L	ND	1.0	01/06/21 21:49	
Chloroform	ug/L	ND	0.50	01/06/21 21:49	
Chloromethane	ug/L	ND	1.0	01/06/21 21:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
Dibromochloromethane	ug/L	ND	0.50	01/06/21 21:49	
Dibromomethane	ug/L	ND	0.50	01/06/21 21:49	
Dichlorodifluoromethane	ug/L	ND	0.50	01/06/21 21:49	
Diisopropyl ether	ug/L	ND	0.50	01/06/21 21:49	

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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.: 92514955

METHOD BLANK: 3119494 Matrix: Water
Associated Lab Samples: 92514955001, 92514955002, 92514955003, 92514955004, 92514955005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/06/21 21:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/06/21 21:49	
m&p-Xylene	ug/L	ND	1.0	01/06/21 21:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/06/21 21:49	
Methylene Chloride	ug/L	ND	2.0	01/06/21 21:49	
n-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
n-Propylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Naphthalene	ug/L	ND	2.0	01/06/21 21:49	
o-Xylene	ug/L	ND	0.50	01/06/21 21:49	
sec-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Styrene	ug/L	ND	0.50	01/06/21 21:49	
tert-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Tetrachloroethene	ug/L	ND	0.50	01/06/21 21:49	
Toluene	ug/L	ND	0.50	01/06/21 21:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
Trichloroethene	ug/L	ND	0.50	01/06/21 21:49	
Trichlorofluoromethane	ug/L	ND	1.0	01/06/21 21:49	
Vinyl chloride	ug/L	ND	1.0	01/06/21 21:49	
1,2-Dichloroethane-d4 (S)	%	94	70-130	01/06/21 21:49	
4-Bromofluorobenzene (S)	%	98	70-130	01/06/21 21:49	
Toluene-d8 (S)	%	102	70-130	01/06/21 21:49	

LABORATORY CONTROL SAMPLE: 3119495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	60-140	
1,1,1-Trichloroethane	ug/L	50	61.3	123	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.3	105	60-140	
1,1,2-Trichloroethane	ug/L	50	62.2	124	60-140	
1,1-Dichloroethane	ug/L	50	63.8	128	60-140	
1,1-Dichloroethene	ug/L	50	61.1	122	60-140	
1,1-Dichloropropene	ug/L	50	63.1	126	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	60-140	
1,2,3-Trichloropropane	ug/L	50	50.2	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.9	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.8	100	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.0	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	60-140	
1,2-Dichlorobenzene	ug/L	50	52.7	105	60-140	
1,2-Dichloroethane	ug/L	50	53.5	107	60-140	
1,2-Dichloropropane	ug/L	50	61.1	122	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.4	101	60-140	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92514955

LABORATORY CONTROL SAMPLE: 3119495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	52.3	105	60-140	
1,3-Dichloropropane	ug/L	50	52.1	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.9	102	60-140	
2,2-Dichloropropane	ug/L	50	59.1	118	60-140	
2-Chlorotoluene	ug/L	50	51.3	103	60-140	
4-Chlorotoluene	ug/L	50	50.1	100	60-140	
Benzene	ug/L	50	59.5	119	60-140	
Bromobenzene	ug/L	50	51.2	102	60-140	
Bromochloromethane	ug/L	50	67.5	135	60-140	
Bromodichloromethane	ug/L	50	56.8	114	60-140	
Bromoform	ug/L	50	53.6	107	60-140	
Bromomethane	ug/L	50	50.7	101	60-140	
Carbon tetrachloride	ug/L	50	54.5	109	60-140	
Chlorobenzene	ug/L	50	51.5	103	60-140	
Chloroethane	ug/L	50	35.4	71	60-140	
Chloroform	ug/L	50	62.7	125	60-140	
Chloromethane	ug/L	50	52.7	105	60-140	
cis-1,2-Dichloroethene	ug/L	50	60.1	120	60-140	
cis-1,3-Dichloropropene	ug/L	50	62.2	124	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	64.3	129	60-140	
Dichlorodifluoromethane	ug/L	50	47.8	96	60-140	
Diisopropyl ether	ug/L	50	59.5	119	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.4	105	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	60-140	
m&p-Xylene	ug/L	100	99.3	99	60-140	
Methyl-tert-butyl ether	ug/L	50	63.6	127	60-140	
Methylene Chloride	ug/L	50	60.9	122	60-140	
n-Butylbenzene	ug/L	50	50.1	100	60-140	
n-Propylbenzene	ug/L	50	49.4	99	60-140	
Naphthalene	ug/L	50	53.9	108	60-140	
o-Xylene	ug/L	50	51.5	103	60-140	
sec-Butylbenzene	ug/L	50	50.3	101	60-140	
Styrene	ug/L	50	51.9	104	60-140	
tert-Butylbenzene	ug/L	50	42.7	85	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	59.5	119	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.6	123	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.3	119	60-140	
Trichloroethene	ug/L	50	60.3	121	60-140	
Trichlorofluoromethane	ug/L	50	50.2	100	60-140	
Vinyl chloride	ug/L	50	55.3	111	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	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: 2020-LI-2448 Incident
Pace Project No.: 92514955

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119496 3119497

Parameter	Units	92514450005 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	<42.2	2000	2000	2050	2070	102	103	60-140	1	
1,1,1-Trichloroethane	ug/L	<27.8	2000	2000	2530	2590	126	130	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	<19.3	2000	2000	1960	2020	98	101	60-140	3	
1,1,2-Trichloroethane	ug/L	<23.2	2000	2000	2390	2500	119	125	60-140	5	
1,1-Dichloroethane	ug/L	<24.4	2000	2000	2550	2660	128	133	60-140	4	
1,1-Dichloroethene	ug/L	<21.8	2000	2000	2540	2600	127	130	60-140	3	
1,1-Dichloropropene	ug/L	<34.8	2000	2000	2620	2700	131	135	60-140	3	
1,2,3-Trichlorobenzene	ug/L	<78.1	2000	2000	1880	1980	94	99	60-140	5	
1,2,3-Trichloropropane	ug/L	<27.1	2000	2000	1930	2020	96	101	60-140	5	
1,2,4-Trichlorobenzene	ug/L	<43.6	2000	2000	1940	1990	97	99	60-140	3	
1,2,4-Trimethylbenzene	ug/L	817	2000	2000	2860	2840	102	101	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<38.5	2000	2000	2000	2160	100	108	60-140	8	
1,2-Dibromoethane (EDB)	ug/L	<23.1	2000	2000	2030	2080	101	104	60-140	2	
1,2-Dichlorobenzene	ug/L	<24.0	2000	2000	2000	2050	100	102	60-140	2	
1,2-Dichloroethane	ug/L	<26.3	2000	2000	2070	2220	104	111	60-140	7	
1,2-Dichloropropane	ug/L	<18.3	2000	2000	2380	2480	119	124	60-140	4	
1,3,5-Trimethylbenzene	ug/L	<22.7	2000	2000	2210	2230	110	111	60-140	1	
1,3-Dichlorobenzene	ug/L	<25.0	2000	2000	1990	2030	100	102	60-140	2	
1,3-Dichloropropane	ug/L	<34.1	2000	2000	1970	2100	99	105	60-140	6	
1,4-Dichlorobenzene	ug/L	<24.9	2000	2000	1940	1990	97	99	60-140	3	
2,2-Dichloropropane	ug/L	<28.1	2000	2000	1940	1990	97	99	60-140	3	
2-Chlorotoluene	ug/L	<20.7	2000	2000	2090	2110	104	105	60-140	1	
4-Chlorotoluene	ug/L	<20.6	2000	2000	1930	1960	97	98	60-140	1	
Benzene	ug/L	1060	2000	2000	3480	3580	121	126	60-140	3	
Bromobenzene	ug/L	<21.5	2000	2000	2040	2060	102	103	60-140	1	
Bromochloromethane	ug/L	<25.8	2000	2000	2650	2760	133	138	60-140	4	
Bromodichloromethane	ug/L	<18.5	2000	2000	2190	2300	110	115	60-140	5	
Bromoform	ug/L	<40.5	2000	2000	1950	2030	97	102	60-140	4	
Bromomethane	ug/L	<172	2000	2000	1990	2180	99	109	60-140	9	
Carbon tetrachloride	ug/L	<23.2	2000	2000	2200	2320	110	116	60-140	5	
Chlorobenzene	ug/L	<22.5	2000	2000	2060	2100	103	105	60-140	2	
Chloroethane	ug/L	<58.5	2000	2000	1990	1970	99	99	60-140	1	
Chloroform	ug/L	<35.3	2000	2000	2470	2550	123	128	60-140	3	
Chloromethane	ug/L	<41.5	2000	2000	2120	2200	106	110	60-140	4	
cis-1,2-Dichloroethene	ug/L	<20.7	2000	2000	2450	2510	123	126	60-140	2	
cis-1,3-Dichloropropene	ug/L	<35.7	2000	2000	2320	2430	116	121	60-140	5	
Dibromochloromethane	ug/L	<40.2	2000	2000	2010	2000	101	100	60-140	1	
Dibromomethane	ug/L	<31.0	2000	2000	2470	2590	124	130	60-140	5	
Dichlorodifluoromethane	ug/L	<28.4	2000	2000	2000	2050	100	103	60-140	2	
Diisopropyl ether	ug/L	39.3J	2000	2000	2330	2420	115	119	60-140	3	
Ethylbenzene	ug/L	557	2000	2000	2560	2590	100	102	60-140	1	
Hexachloro-1,3-butadiene	ug/L	<120	2000	2000	2050	2080	102	104	60-140	2	
Isopropylbenzene (Cumene)	ug/L	<23.8	2000	2000	2050	2100	103	105	60-140	3	
m&p-Xylene	ug/L	1920	4000	4000	5960	6010	101	102	60-140	1	
Methyl-tert-butyl ether	ug/L	89.1	2000	2000	2490	2590	120	125	60-140	4	
Methylene Chloride	ug/L	<150	2000	2000	2510	2570	126	129	60-140	2	

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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.: 92514955

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119496 3119497

Parameter	Units	92514450005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<35.3	2000	2000	1940	1950	97	98	60-140	1	
n-Propylbenzene	ug/L	<24.1	2000	2000	2020	2060	101	103	60-140	2	
Naphthalene	ug/L	578	2000	2000	2580	2710	100	107	60-140	5	
o-Xylene	ug/L	1170	2000	2000	3270	3280	105	105	60-140	0	
sec-Butylbenzene	ug/L	<24.6	2000	2000	2000	2060	100	103	60-140	3	
Styrene	ug/L	<25.6	2000	2000	2020	2070	101	104	60-140	3	
tert-Butylbenzene	ug/L	<25.0	2000	2000	1730	1740	87	87	60-140	0	
Tetrachloroethene	ug/L	<23.2	2000	2000	2060	2100	103	105	60-140	2	
Toluene	ug/L	9700	2000	2000	11800	11800	103	106	60-140	1	
trans-1,2-Dichloroethene	ug/L	<25.7	2000	2000	2570	2630	128	131	60-140	2	
trans-1,3-Dichloropropene	ug/L	<39.4	2000	2000	2210	2280	110	114	60-140	3	
Trichloroethene	ug/L	<23.2	2000	2000	2450	2510	123	125	60-140	2	
Trichlorofluoromethane	ug/L	<33.6	2000	2000	2290	2380	115	119	60-140	4	
Vinyl chloride	ug/L	<40.7	2000	2000	2320	2410	116	121	60-140	4	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130		
4-Bromofluorobenzene (S)	%						101	102	70-130		
Toluene-d8 (S)	%						102	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

QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92514955

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.: 92514955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514955001	**MW-36D (96.5-103.5)**	MADEPV	1602614	MADEP VPH	1602614
92514955002	**DUP-2**	MADEPV	1602614	MADEP VPH	1602614
92514955003	**EB-1**	MADEPV	1602614	MADEP VPH	1602614
92514955004	**FB-1**	MADEPV	1602614	MADEP VPH	1602614
92514955001	**MW-36D (96.5-103.5)**	EPA 3010A	591104	EPA 6010D	591118
92514955002	**DUP-2**	EPA 3010A	591104	EPA 6010D	591118
92514955003	**EB-1**	EPA 3010A	591104	EPA 6010D	591118
92514955004	**FB-1**	EPA 3010A	591104	EPA 6010D	591118
92514955001	**MW-36D (96.5-103.5)**	SM 6200B	590898		
92514955002	**DUP-2**	SM 6200B	590898		
92514955003	**EB-1**	SM 6200B	590898		
92514955004	**FB-1**	SM 6200B	590898		
92514955005	**Trip Blank**	SM 6200B	590898		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92514955
92514955

LAB USE ... umber or

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-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 Fetz
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:

Collected By (signature): Naomi Fetz
Turnaround Date Required: 3 day TAT
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 ______

* 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	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments: 92514955
MW-36D	GW	G	1-5-21					8	X	X	X	001
Dup-2	GW	↓	↓					8	X	X	X	002
EB-1	OT	↓	↓					8	X	X	X	003
FB-1	OT	↓	↓					8	X	X	X	004
Trip Blank	OT	-	↓					2	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: b. bags
Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2529471
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: 2.9 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 2.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fetz / Apex	1-6-21 / 0815	[signature] PACE HVL	1-6-21 8:15

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: 1/6/21	**Evaluated by:** TO PACE HLC
Client: Apex Companies	

WO# : 92514955 — Pace Number

PM: AMB Due Date: 01/11/21
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:

X	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:

time is missing on COC and most of the samples.

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: Apex Co.	Contacted per: email	
PM Initials: AMB	Date/Time: 1-6-21 @ 1153	

Client Comments/Instructions:

MW-36D (96.5 - 103.5) is correct ID. collection time is 1700. Equipment blank collection time is 1705. Dup and trip blank collection times are 00:00

*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# : 92514955**

PM: AMB **Due Date: 01/11/21**

CLIENT: 92-APEX MOOR

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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

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 (1/6/21)
Pace Project No.: 92515075

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515075001	**MW-16**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075002	**MW-17**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075003	**MW-19**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075004	**MW-21**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075005	**MW-23**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075006	**MW-28**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075007	**MW-31**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075008	**MW-40**	MADEP VPH	BMB, GLN	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075009	**Dup-1-20210106**	MADEP VPH	BMB, JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515075010	**FB-1-20210106**	MADEP VPH	BMB	6	PAN
		SM 6200B	SAS	63	PASI-C
92515075011	**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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-16 **Lab ID: 92515075001** Collected: 01/06/21 11:15 Received: 01/06/21 13:22 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	01/08/21 16:39	01/08/21 16:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 16:39	01/08/21 16:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 16:39	01/08/21 16:39	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 16:39	01/08/21 16:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.2	%	70.0-130	1	01/08/21 16:39	01/08/21 16:39	615-59-8FID	
2,5-Dibromotoluene (PID)	84.7	%	70.0-130	1	01/08/21 16:39	01/08/21 16:39	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**42.7**	ug/L	5.0	1	01/08/21 01:37	01/09/21 18:30	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 01:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 01:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 01:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 01:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 01:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 01:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 01:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 01:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 01:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 01:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 01:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 01:25	75-00-3	
Chloroform	**1.3**	ug/L	0.50	1		01/07/21 01:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 01:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 01:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 01:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 01:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 01:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 01:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 01:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 01:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 01:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 01:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 01:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 01:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 01:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 01:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 01:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 01:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 01:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 01:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 01:25	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: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: MW-16 **Lab ID: 92515075001** Collected: 01/06/21 11:15 Received: 01/06/21 13:22 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		01/07/21 01:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 01:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 01:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 01:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 01:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 01:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 01:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 01:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 01:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 01:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 01:25	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 01:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 01:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 01:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 01:25	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 01:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 01:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 01:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 01:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 01:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 01:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 01:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 01:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 01:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 01:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 01:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 01:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 01:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/07/21 01:25	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 01:25	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 01:25	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-17 **Lab ID: 92515075002** Collected: 01/06/21 10:40 Received: 01/06/21 13:22 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	01/08/21 17:12	01/08/21 17:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 17:12	01/08/21 17:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 17:12	01/08/21 17:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 17:12	01/08/21 17:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.6	%	70.0-130	1	01/08/21 17:12	01/08/21 17:12	615-59-8FID	
2,5-Dibromotoluene (PID)	85.8	%	70.0-130	1	01/08/21 17:12	01/08/21 17:12	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	01/08/21 01:37	01/09/21 18:33	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 01:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 01:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 01:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 01:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 01:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 01:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 01:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 01:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 01:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 01:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 01:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 01:43	75-00-3	
Chloroform	**4.0**	ug/L	0.50	1		01/07/21 01:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 01:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 01:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 01:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 01:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 01:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 01:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 01:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 01:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 01:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 01:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 01:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 01:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 01:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 01:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 01:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 01:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 01:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 01:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 01:43	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: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: MW-17 **Lab ID: 92515075002** Collected: 01/06/21 10:40 Received: 01/06/21 13:22 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		01/07/21 01:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 01:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 01:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 01:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 01:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 01:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 01:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 01:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 01:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 01:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 01:43	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 01:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 01:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 01:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 01:43	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 01:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 01:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 01:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 01:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 01:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 01:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 01:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 01:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 01:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 01:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 01:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 01:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 01:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/07/21 01:43	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 01:43	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		01/07/21 01:43	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-19 **Lab ID: 92515075003** Collected: 01/06/21 12:45 Received: 01/06/21 13:22 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)	**406**	ug/L	100	1	01/08/21 17:46	01/08/21 17:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 17:46	01/08/21 17:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 17:46	01/08/21 17:46	TPHC9C10A	
Total VPH	**509**	ug/L	100	1	01/08/21 17:46	01/08/21 17:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.0	%	70.0-130	1	01/08/21 17:46	01/08/21 17:46	615-59-8FID	
2,5-Dibromotoluene (PID)	82.7	%	70.0-130	1	01/08/21 17:46	01/08/21 17:46	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**115**	ug/L	5.0	1	01/08/21 01:37	01/09/21 18:37	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**171**	ug/L	0.50	1		01/07/21 02:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 02:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 02:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 02:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 02:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 02:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 02:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 02:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 02:01	75-00-3	
Chloroform	**6.4**	ug/L	0.50	1		01/07/21 02:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 02:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 02:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 02:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 02:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 02:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 02:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 02:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 02:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 02:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 02:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:01	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: MW-19 **Lab ID: 92515075003** Collected: 01/06/21 12:45 Received: 01/06/21 13:22 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		01/07/21 02:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 02:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 02:01	10061-02-6	
Diisopropyl ether	**34.2**	ug/L	0.50	1		01/07/21 02:01	108-20-3	
Ethylbenzene	**1.2**	ug/L	0.50	1		01/07/21 02:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 02:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 02:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 02:01	75-09-2	
Methyl-tert-butyl ether	**10.5**	ug/L	0.50	1		01/07/21 02:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 02:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 02:01	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 02:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 02:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 02:01	79-34-5	
Tetrachloroethene	**0.93**	ug/L	0.50	1		01/07/21 02:01	127-18-4	
Toluene	**34.0**	ug/L	0.50	1		01/07/21 02:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 02:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 02:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 02:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 02:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 02:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 02:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 02:01	96-18-4	
1,2,4-Trimethylbenzene	**3.4**	ug/L	0.50	1		01/07/21 02:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 02:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 02:01	75-01-4	
m&p-Xylene	**21.7**	ug/L	1.0	1		01/07/21 02:01	179601-23-1	
o-Xylene	**26.2**	ug/L	0.50	1		01/07/21 02:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/07/21 02:01	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/07/21 02:01	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/07/21 02:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: MW-21 **Lab ID: 92515075004** Collected: 01/06/21 12:15 Received: 01/06/21 13:22 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)	**2210**	ug/L	100	1	01/08/21 18:19	01/08/21 18:19		
Aliphatic (C09-C12)	**456**	ug/L	100	1	01/08/21 18:19	01/08/21 18:19		
Aromatic (C09-C10),Unadjusted	**122**	ug/L	100	1	01/08/21 18:19	01/08/21 18:19	TPHC9C10A	
Total VPH	**2790**	ug/L	100	1	01/08/21 18:19	01/08/21 18:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/08/21 18:19	01/08/21 18:19	615-59-8FID	
2,5-Dibromotoluene (PID)	87.7	%	70.0-130	1	01/08/21 18:19	01/08/21 18:19	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	01/08/21 01:37	01/09/21 18:40	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**726**	ug/L	2.5	5		01/07/21 13:33	71-43-2	M1
Bromobenzene	ND	ug/L	2.5	5		01/07/21 13:33	108-86-1	
Bromochloromethane	ND	ug/L	2.5	5		01/07/21 13:33	74-97-5	M1
Bromodichloromethane	ND	ug/L	2.5	5		01/07/21 13:33	75-27-4	
Bromoform	ND	ug/L	2.5	5		01/07/21 13:33	75-25-2	
Bromomethane	ND	ug/L	25.0	5		01/07/21 13:33	74-83-9	
n-Butylbenzene	ND	ug/L	2.5	5		01/07/21 13:33	104-51-8	
sec-Butylbenzene	ND	ug/L	2.5	5		01/07/21 13:33	135-98-8	
tert-Butylbenzene	ND	ug/L	2.5	5		01/07/21 13:33	98-06-6	
Carbon tetrachloride	ND	ug/L	2.5	5		01/07/21 13:33	56-23-5	
Chlorobenzene	ND	ug/L	2.5	5		01/07/21 13:33	108-90-7	
Chloroethane	ND	ug/L	5.0	5		01/07/21 13:33	75-00-3	
Chloroform	ND	ug/L	2.5	5		01/07/21 13:33	67-66-3	
Chloromethane	ND	ug/L	5.0	5		01/07/21 13:33	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	5		01/07/21 13:33	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	5		01/07/21 13:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	5		01/07/21 13:33	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	5		01/07/21 13:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	5		01/07/21 13:33	106-93-4	
Dibromomethane	ND	ug/L	2.5	5		01/07/21 13:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	5		01/07/21 13:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	5		01/07/21 13:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	5		01/07/21 13:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	5		01/07/21 13:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.5	5		01/07/21 13:33	75-34-3	M1
1,2-Dichloroethane	ND	ug/L	2.5	5		01/07/21 13:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.5	5		01/07/21 13:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	5		01/07/21 13:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	5		01/07/21 13:33	156-60-5	M1
1,2-Dichloropropane	ND	ug/L	2.5	5		01/07/21 13:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	5		01/07/21 13:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	5		01/07/21 13:33	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-21 **Lab ID: 92515075004** Collected: 01/06/21 12:15 Received: 01/06/21 13:22 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	2.5	5		01/07/21 13:33	563-58-6	M1
cis-1,3-Dichloropropene	ND	ug/L	2.5	5		01/07/21 13:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	5		01/07/21 13:33	10061-02-6	
Diisopropyl ether	**108**	ug/L	2.5	5		01/07/21 13:33	108-20-3	
Ethylbenzene	**8.0**	ug/L	2.5	5		01/07/21 13:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	5		01/07/21 13:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.5	5		01/07/21 13:33	98-82-8	
Methylene Chloride	ND	ug/L	10.0	5		01/07/21 13:33	75-09-2	
Methyl-tert-butyl ether	**50.0**	ug/L	2.5	5		01/07/21 13:33	1634-04-4	
Naphthalene	ND	ug/L	10.0	5		01/07/21 13:33	91-20-3	
n-Propylbenzene	ND	ug/L	2.5	5		01/07/21 13:33	103-65-1	
Styrene	ND	ug/L	2.5	5		01/07/21 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	5		01/07/21 13:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	5		01/07/21 13:33	79-34-5	
Tetrachloroethene	ND	ug/L	2.5	5		01/07/21 13:33	127-18-4	
Toluene	**96.1**	ug/L	2.5	5		01/07/21 13:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	5		01/07/21 13:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	5		01/07/21 13:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.5	5		01/07/21 13:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	5		01/07/21 13:33	79-00-5	
Trichloroethene	ND	ug/L	2.5	5		01/07/21 13:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		01/07/21 13:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	5		01/07/21 13:33	96-18-4	
1,2,4-Trimethylbenzene	**28.9**	ug/L	2.5	5		01/07/21 13:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.5	5		01/07/21 13:33	108-67-8	
Vinyl chloride	ND	ug/L	5.0	5		01/07/21 13:33	75-01-4	
m&p-Xylene	**128**	ug/L	5.0	5		01/07/21 13:33	179601-23-1	
o-Xylene	**68.5**	ug/L	2.5	5		01/07/21 13:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	5		01/07/21 13:33	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	5		01/07/21 13:33	460-00-4	
Toluene-d8 (S)	103	%	70-130	5		01/07/21 13:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: MW-23 **Lab ID: 92515075005** Collected: 01/06/21 11:10 Received: 01/06/21 13:22 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	01/08/21 18:52	01/08/21 18:52		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 18:52	01/08/21 18:52		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 18:52	01/08/21 18:52	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 18:52	01/08/21 18:52	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/08/21 18:52	01/08/21 18:52	615-59-8FID	
2,5-Dibromotoluene (PID)	87.3	%	70.0-130	1	01/08/21 18:52	01/08/21 18:52	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**85.1**	ug/L	5.0	1	01/08/21 01:37	01/09/21 18:56	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 02:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 02:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 02:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 02:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 02:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 02:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 02:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 02:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 02:37	75-00-3	
Chloroform	**0.61**	ug/L	0.50	1		01/07/21 02:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 02:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 02:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 02:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 02:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 02:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 02:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 02:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 02:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 02:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 02:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:37	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-23 **Lab ID: 92515075005** Collected: 01/06/21 11:10 Received: 01/06/21 13:22 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		01/07/21 02:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 02:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 02:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 02:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 02:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 02:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 02:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 02:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 02:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 02:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 02:37	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 02:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 02:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 02:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 02:37	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 02:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 02:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 02:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 02:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 02:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 02:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 02:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 02:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 02:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 02:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 02:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 02:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 02:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/07/21 02:37	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 02:37	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 02:37	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-28 **Lab ID: 92515075006** Collected: 01/06/21 10:16 Received: 01/06/21 13:22 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	01/08/21 19:25	01/08/21 19:25		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 19:25	01/08/21 19:25		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 19:25	01/08/21 19:25	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 19:25	01/08/21 19:25	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.0	%	70.0-130	1	01/08/21 19:25	01/08/21 19:25	615-59-8FID	
2,5-Dibromotoluene (PID)	85.4	%	70.0-130	1	01/08/21 19:25	01/08/21 19:25	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**45.0**	ug/L	5.0	1	01/08/21 01:37	01/09/21 18:59	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 02:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 02:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 02:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 02:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 02:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 02:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 02:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 02:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 02:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 02:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 02:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 02:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 02:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 02:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 02:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 02:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 02:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 02:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 02:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 02:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 02:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 02:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 02:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 02:55	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: MW-28 **Lab ID: 92515075006** Collected: 01/06/21 10:16 Received: 01/06/21 13:22 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		01/07/21 02:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 02:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 02:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 02:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 02:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 02:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 02:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 02:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 02:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 02:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 02:55	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 02:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 02:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 02:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 02:55	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 02:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 02:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 02:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 02:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 02:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 02:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 02:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 02:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 02:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 02:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 02:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 02:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/07/21 02:55	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/07/21 02:55	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 02:55	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-31 **Lab ID: 92515075007** Collected: 01/06/21 11:48 Received: 01/06/21 13:22 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	01/08/21 19:59	01/08/21 19:59		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 19:59	01/08/21 19:59		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 19:59	01/08/21 19:59	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 19:59	01/08/21 19:59	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.7	%	70.0-130	1	01/08/21 19:59	01/08/21 19:59	615-59-8FID	
2,5-Dibromotoluene (PID)	86.0	%	70.0-130	1	01/08/21 19:59	01/08/21 19:59	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**16.6**	ug/L	5.0	1	01/08/21 01:37	01/09/21 19:03	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 03:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 03:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 03:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 03:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 03:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 03:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 03:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 03:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 03:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 03:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 03:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 03:13	75-00-3	
Chloroform	**2.1**	ug/L	0.50	1		01/07/21 03:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 03:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 03:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 03:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 03:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 03:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 03:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 03:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 03:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 03:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 03:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 03:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 03:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 03:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 03:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 03:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 03:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 03:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 03:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 03:13	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: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: MW-31 **Lab ID: 92515075007** Collected: 01/06/21 11:48 Received: 01/06/21 13:22 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		01/07/21 03:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 03:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 03:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 03:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 03:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 03:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 03:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 03:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 03:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 03:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 03:13	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 03:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 03:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 03:13	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 03:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 03:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 03:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 03:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 03:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 03:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 03:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 03:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 03:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 03:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 03:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 03:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 03:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/07/21 03:13	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 03:13	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 03:13	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-40 **Lab ID: 92515075008** Collected: 01/06/21 12:10 Received: 01/06/21 13:22 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)	**12100**	ug/L	1000	10	01/10/21 09:13	01/10/21 09:13		
Aliphatic (C09-C12)	**6890**	ug/L	100	1	01/08/21 20:32	01/08/21 20:32		
Aromatic (C09-C10),Unadjusted	**1430**	ug/L	1000	10	01/10/21 09:13	01/10/21 09:13	TPHC9C10A	
Total VPH	**20400**	ug/L	1000	10	01/10/21 09:13	01/10/21 09:13	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	104	%	70.0-130	1	01/08/21 20:32	01/08/21 20:32	615-59-8FID	
2,5-Dibromotoluene (FID)	97.5	%	70.0-130	10	01/10/21 09:13	01/10/21 09:13	615-59-8FID	
2,5-Dibromotoluene (PID)	88.9	%	70.0-130	1	01/08/21 20:32	01/08/21 20:32	615-59-8PID	
2,5-Dibromotoluene (PID)	84.2	%	70.0-130	10	01/10/21 09:13	01/10/21 09:13	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**32.4**	ug/L	5.0	1	01/08/21 01:37	01/09/21 19:06	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**1870**	ug/L	12.5	25		01/07/21 13:51	71-43-2	
Bromobenzene	ND	ug/L	12.5	25		01/07/21 13:51	108-86-1	
Bromochloromethane	ND	ug/L	12.5	25		01/07/21 13:51	74-97-5	
Bromodichloromethane	ND	ug/L	12.5	25		01/07/21 13:51	75-27-4	
Bromoform	ND	ug/L	12.5	25		01/07/21 13:51	75-25-2	
Bromomethane	ND	ug/L	125	25		01/07/21 13:51	74-83-9	
n-Butylbenzene	ND	ug/L	12.5	25		01/07/21 13:51	104-51-8	
sec-Butylbenzene	ND	ug/L	12.5	25		01/07/21 13:51	135-98-8	
tert-Butylbenzene	ND	ug/L	12.5	25		01/07/21 13:51	98-06-6	
Carbon tetrachloride	ND	ug/L	12.5	25		01/07/21 13:51	56-23-5	
Chlorobenzene	ND	ug/L	12.5	25		01/07/21 13:51	108-90-7	
Chloroethane	ND	ug/L	25.0	25		01/07/21 13:51	75-00-3	
Chloroform	ND	ug/L	12.5	25		01/07/21 13:51	67-66-3	
Chloromethane	ND	ug/L	25.0	25		01/07/21 13:51	74-87-3	
2-Chlorotoluene	ND	ug/L	12.5	25		01/07/21 13:51	95-49-8	
4-Chlorotoluene	ND	ug/L	12.5	25		01/07/21 13:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	25		01/07/21 13:51	96-12-8	
Dibromochloromethane	ND	ug/L	12.5	25		01/07/21 13:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	12.5	25		01/07/21 13:51	106-93-4	
Dibromomethane	ND	ug/L	12.5	25		01/07/21 13:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	12.5	25		01/07/21 13:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	12.5	25		01/07/21 13:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	12.5	25		01/07/21 13:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	12.5	25		01/07/21 13:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	12.5	25		01/07/21 13:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	12.5	25		01/07/21 13:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	12.5	25		01/07/21 13:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	12.5	25		01/07/21 13:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	12.5	25		01/07/21 13:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	12.5	25		01/07/21 13:51	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 (1/6/21)
Pace Project No.: 92515075

Sample: MW-40 **Lab ID: 92515075008** Collected: 01/06/21 12:10 Received: 01/06/21 13:22 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	12.5	25		01/07/21 13:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	12.5	25		01/07/21 13:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	12.5	25		01/07/21 13:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	12.5	25		01/07/21 13:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	12.5	25		01/07/21 13:51	10061-02-6	
Diisopropyl ether	**146**	ug/L	12.5	25		01/07/21 13:51	108-20-3	
Ethylbenzene	**252**	ug/L	12.5	25		01/07/21 13:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	25		01/07/21 13:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	12.5	25		01/07/21 13:51	98-82-8	
Methylene Chloride	ND	ug/L	50.0	25		01/07/21 13:51	75-09-2	
Methyl-tert-butyl ether	**20.0**	ug/L	12.5	25		01/07/21 13:51	1634-04-4	
Naphthalene	**78.4**	ug/L	50.0	25		01/07/21 13:51	91-20-3	
n-Propylbenzene	ND	ug/L	12.5	25		01/07/21 13:51	103-65-1	
Styrene	ND	ug/L	12.5	25		01/07/21 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	25		01/07/21 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	25		01/07/21 13:51	79-34-5	
Tetrachloroethene	ND	ug/L	12.5	25		01/07/21 13:51	127-18-4	
Toluene	**4460**	ug/L	12.5	25		01/07/21 13:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	25		01/07/21 13:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	25		01/07/21 13:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	12.5	25		01/07/21 13:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	12.5	25		01/07/21 13:51	79-00-5	
Trichloroethene	ND	ug/L	12.5	25		01/07/21 13:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		01/07/21 13:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	25		01/07/21 13:51	96-18-4	
1,2,4-Trimethylbenzene	**355**	ug/L	12.5	25		01/07/21 13:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	12.5	25		01/07/21 13:51	108-67-8	
Vinyl chloride	ND	ug/L	25.0	25		01/07/21 13:51	75-01-4	
m&p-Xylene	**1280**	ug/L	25.0	25		01/07/21 13:51	179601-23-1	
o-Xylene	**662**	ug/L	12.5	25		01/07/21 13:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	25		01/07/21 13:51	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	25		01/07/21 13:51	460-00-4	
Toluene-d8 (S)	104	%	70-130	25		01/07/21 13:51	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 (1/6/21)
Pace Project No.: 92515075

Sample: Dup-1-20210106 **Lab ID: 92515075009** Collected: 01/06/21 00:00 Received: 01/06/21 13:22 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	01/08/21 21:05	01/08/21 21:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 21:05	01/08/21 21:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 08:07	01/10/21 08:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 21:05	01/08/21 21:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.9	%	70.0-130	1	01/08/21 21:05	01/08/21 21:05	615-59-8FID	
2,5-Dibromotoluene (FID)	99.7	%	70.0-130	1	01/10/21 08:07	01/10/21 08:07	615-59-8FID	
2,5-Dibromotoluene (PID)	82.9	%	70.0-130	1	01/08/21 21:05	01/08/21 21:05	615-59-8PID	
2,5-Dibromotoluene (PID)	85.6	%	70.0-130	1	01/10/21 08:07	01/10/21 08:07	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**38.4**	ug/L	5.0	1	01/08/21 01:37	01/09/21 19:09	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 12:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 12:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 12:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 12:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 12:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 12:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 12:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 12:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 12:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 12:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 12:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 12:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 12:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 12:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 12:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 12:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:57	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 (1/6/21)
Pace Project No.: 92515075

Sample: Dup-1-20210106 **Lab ID: 92515075009** Collected: 01/06/21 00:00 Received: 01/06/21 13:22 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		01/07/21 12:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 12:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 12:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 12:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 12:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 12:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 12:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 12:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 12:57	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 12:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 12:57	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 12:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 12:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 12:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 12:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 12:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 12:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 12:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/07/21 12:57	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/07/21 12:57	460-00-4	
Toluene-d8 (S)	105	%	70-130	1		01/07/21 12:57	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 (1/6/21)
Pace Project No.: 92515075

Sample: FB-1-20210106 **Lab ID: 92515075010** Collected: 01/06/21 13:00 Received: 01/06/21 13:22 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	01/08/21 16:06	01/08/21 16:06		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 16:06	01/08/21 16:06		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 16:06	01/08/21 16:06	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 16:06	01/08/21 16:06	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.2	%	70.0-130	1	01/08/21 16:06	01/08/21 16:06	615-59-8FID	
2,5-Dibromotoluene (PID)	83.0	%	70.0-130	1	01/08/21 16:06	01/08/21 16:06	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 23:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 23:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 23:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 23:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 23:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 23:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 23:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 23:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 23:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 23:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 23:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 23:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 23:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 23:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 23:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 23:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 23:37	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 (1/6/21)
Pace Project No.: 92515075

Sample: FB-1-20210106 **Lab ID: 92515075010** Collected: 01/06/21 13:00 Received: 01/06/21 13:22 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		01/06/21 23:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 23:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 23:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 23:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 23:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 23:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 23:37	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 23:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 23:37	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 23:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 23:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 23:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 23:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 23:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 23:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 23:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		01/06/21 23:37	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/06/21 23:37	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 23:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: Trip Blank **Lab ID: 92515075011** Collected: 01/06/21 00:00 Received: 01/06/21 13:22 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		01/06/21 23:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 23:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 23:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 23:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 23:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 23:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 23:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 23:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 23:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 23:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 23:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 23:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 23:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 23:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 23:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 23:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 23:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 23:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 23:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 23:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 23:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 23:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 23:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 23:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 23:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 23:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 23:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 23:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 23:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 23:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 23:55	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 23:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 23:55	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

Sample: Trip Blank **Lab ID: 92515075011** Collected: 01/06/21 00:00 Received: 01/06/21 13:22 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		01/06/21 23:55	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 23:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 23:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 23:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 23:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 23:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 23:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 23:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 23:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 23:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 23:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/06/21 23:55	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 23:55	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 23:55	2037-26-5	

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

QC Batch: 1602614 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92515075001, 92515075002, 92515075003, 92515075004, 92515075005, 92515075006, 92515075007, 92515075008, 92515075009, 92515075010

METHOD BLANK: R3611152-3 Matrix: Water

Associated Lab Samples: 92515075001, 92515075002, 92515075003, 92515075004, 92515075005, 92515075006, 92515075007, 92515075008, 92515075009, 92515075010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/08/21 13:26	
Aliphatic (C09-C12)	ug/L	ND	100	01/08/21 13:26	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/08/21 13:26	
Total VPH	ug/L	ND	100	01/08/21 13:26	
2,5-Dibromotoluene (FID)	%	95	70.0-130	01/08/21 13:26	
2,5-Dibromotoluene (PID)	%	82.3	70.0-130	01/08/21 13:26	

LABORATORY CONTROL SAMPLE & LCSD: R3611152-1 R3611152-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1310	1310	109	109	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1730	1730	124	124	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	208	208	104	104	70.0-130	0.00	25	
Total VPH	ug/L	2800	3250	3250	116	116	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				97.9	97.3	70.0-130			
2,5-Dibromotoluene (PID)	%				85.5	84.8	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

QC Batch: 1603302
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515075008, 92515075009

METHOD BLANK: R3611201-3 Matrix: Water
Associated Lab Samples: 92515075008, 92515075009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 20:50	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 20:50	
Total VPH	ug/L	ND	100	01/09/21 20:50	
2,5-Dibromotoluene (FID)	%	88.2	70.0-130	01/09/21 20:50	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 20:50	

LABORATORY CONTROL SAMPLE & LCSD: R3611201-1 R3611201-2

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	1030	86.7	85.8	70.0-130	0.966	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	184	93.0	92.0	70.0-130	1.08	25	
Total VPH	ug/L	2800	2720	2660	97.1	95.0	70.0-130	2.23	25	
2,5-Dibromotoluene (FID)	%				96.7	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.2	85.0	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

QC Batch: 591415 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515075001, 92515075002, 92515075003, 92515075004, 92515075005, 92515075006, 92515075007, 92515075008, 92515075009

METHOD BLANK: 3122329 Matrix: Water
Associated Lab Samples: 92515075001, 92515075002, 92515075003, 92515075004, 92515075005, 92515075006, 92515075007, 92515075008, 92515075009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/09/21 18:14	

LABORATORY CONTROL SAMPLE: 3122330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	475	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122331 3122332

Parameter	Units	92515170002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	13.0	500	500	474	478	92	93	75-125	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

QC Batch: 590898
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515075001, 92515075002, 92515075003, 92515075005, 92515075006, 92515075007, 92515075010, 92515075011

METHOD BLANK: 3119494
Matrix: Water
Associated Lab Samples: 92515075001, 92515075002, 92515075003, 92515075005, 92515075006, 92515075007, 92515075010, 92515075011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
1,1-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/06/21 21:49	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/06/21 21:49	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/06/21 21:49	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichloroethane	ug/L	ND	0.50	01/06/21 21:49	
1,2-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
1,3-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
2,2-Dichloropropane	ug/L	ND	0.50	01/06/21 21:49	
2-Chlorotoluene	ug/L	ND	0.50	01/06/21 21:49	
4-Chlorotoluene	ug/L	ND	0.50	01/06/21 21:49	
Benzene	ug/L	ND	0.50	01/06/21 21:49	
Bromobenzene	ug/L	ND	0.50	01/06/21 21:49	
Bromochloromethane	ug/L	ND	0.50	01/06/21 21:49	
Bromodichloromethane	ug/L	ND	0.50	01/06/21 21:49	
Bromoform	ug/L	ND	0.50	01/06/21 21:49	
Bromomethane	ug/L	ND	5.0	01/06/21 21:49	
Carbon tetrachloride	ug/L	ND	0.50	01/06/21 21:49	
Chlorobenzene	ug/L	ND	0.50	01/06/21 21:49	
Chloroethane	ug/L	ND	1.0	01/06/21 21:49	
Chloroform	ug/L	ND	0.50	01/06/21 21:49	
Chloromethane	ug/L	ND	1.0	01/06/21 21:49	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
Dibromochloromethane	ug/L	ND	0.50	01/06/21 21:49	
Dibromomethane	ug/L	ND	0.50	01/06/21 21:49	
Dichlorodifluoromethane	ug/L	ND	0.50	01/06/21 21:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515075

METHOD BLANK: 3119494 Matrix: Water
Associated Lab Samples: 92515075001, 92515075002, 92515075003, 92515075005, 92515075006, 92515075007, 92515075010, 92515075011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	01/06/21 21:49	
Ethylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/06/21 21:49	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/06/21 21:49	
m&p-Xylene	ug/L	ND	1.0	01/06/21 21:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/06/21 21:49	
Methylene Chloride	ug/L	ND	2.0	01/06/21 21:49	
n-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
n-Propylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Naphthalene	ug/L	ND	2.0	01/06/21 21:49	
o-Xylene	ug/L	ND	0.50	01/06/21 21:49	
sec-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Styrene	ug/L	ND	0.50	01/06/21 21:49	
tert-Butylbenzene	ug/L	ND	0.50	01/06/21 21:49	
Tetrachloroethene	ug/L	ND	0.50	01/06/21 21:49	
Toluene	ug/L	ND	0.50	01/06/21 21:49	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/06/21 21:49	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/06/21 21:49	
Trichloroethene	ug/L	ND	0.50	01/06/21 21:49	
Trichlorofluoromethane	ug/L	ND	1.0	01/06/21 21:49	
Vinyl chloride	ug/L	ND	1.0	01/06/21 21:49	
1,2-Dichloroethane-d4 (S)	%	94	70-130	01/06/21 21:49	
4-Bromofluorobenzene (S)	%	98	70-130	01/06/21 21:49	
Toluene-d8 (S)	%	102	70-130	01/06/21 21:49	

LABORATORY CONTROL SAMPLE: 3119495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	60-140	
1,1,1-Trichloroethane	ug/L	50	61.3	123	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.3	105	60-140	
1,1,2-Trichloroethane	ug/L	50	62.2	124	60-140	
1,1-Dichloroethane	ug/L	50	63.8	128	60-140	
1,1-Dichloroethene	ug/L	50	61.1	122	60-140	
1,1-Dichloropropene	ug/L	50	63.1	126	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	60-140	
1,2,3-Trichloropropane	ug/L	50	50.2	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.9	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	49.8	100	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.0	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	60-140	
1,2-Dichlorobenzene	ug/L	50	52.7	105	60-140	
1,2-Dichloroethane	ug/L	50	53.5	107	60-140	

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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 (1/6/21)
Pace Project No.: 92515075

LABORATORY CONTROL SAMPLE: 3119495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	61.1	122	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.4	101	60-140	
1,3-Dichlorobenzene	ug/L	50	52.3	105	60-140	
1,3-Dichloropropane	ug/L	50	52.1	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.9	102	60-140	
2,2-Dichloropropane	ug/L	50	59.1	118	60-140	
2-Chlorotoluene	ug/L	50	51.3	103	60-140	
4-Chlorotoluene	ug/L	50	50.1	100	60-140	
Benzene	ug/L	50	59.5	119	60-140	
Bromobenzene	ug/L	50	51.2	102	60-140	
Bromochloromethane	ug/L	50	67.5	135	60-140	
Bromodichloromethane	ug/L	50	56.8	114	60-140	
Bromoform	ug/L	50	53.6	107	60-140	
Bromomethane	ug/L	50	50.7	101	60-140	
Carbon tetrachloride	ug/L	50	54.5	109	60-140	
Chlorobenzene	ug/L	50	51.5	103	60-140	
Chloroethane	ug/L	50	35.4	71	60-140	
Chloroform	ug/L	50	62.7	125	60-140	
Chloromethane	ug/L	50	52.7	105	60-140	
cis-1,2-Dichloroethene	ug/L	50	60.1	120	60-140	
cis-1,3-Dichloropropene	ug/L	50	62.2	124	60-140	
Dibromochloromethane	ug/L	50	52.8	106	60-140	
Dibromomethane	ug/L	50	64.3	129	60-140	
Dichlorodifluoromethane	ug/L	50	47.8	96	60-140	
Diisopropyl ether	ug/L	50	59.5	119	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.4	105	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	60-140	
m&p-Xylene	ug/L	100	99.3	99	60-140	
Methyl-tert-butyl ether	ug/L	50	63.6	127	60-140	
Methylene Chloride	ug/L	50	60.9	122	60-140	
n-Butylbenzene	ug/L	50	50.1	100	60-140	
n-Propylbenzene	ug/L	50	49.4	99	60-140	
Naphthalene	ug/L	50	53.9	108	60-140	
o-Xylene	ug/L	50	51.5	103	60-140	
sec-Butylbenzene	ug/L	50	50.3	101	60-140	
Styrene	ug/L	50	51.9	104	60-140	
tert-Butylbenzene	ug/L	50	42.7	85	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	59.5	119	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.6	123	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.3	119	60-140	
Trichloroethene	ug/L	50	60.3	121	60-140	
Trichlorofluoromethane	ug/L	50	50.2	100	60-140	
Vinyl chloride	ug/L	50	55.3	111	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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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 (1/6/21)
Pace Project No.: 92515075

LABORATORY CONTROL SAMPLE: 3119495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119496 3119497

Parameter	Units	92514450005 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	<42.2	2000	2000	2050	2070	102	103	60-140	1	
1,1,1-Trichloroethane	ug/L	<27.8	2000	2000	2530	2590	126	130	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	<19.3	2000	2000	1960	2020	98	101	60-140	3	
1,1,2-Trichloroethane	ug/L	<23.2	2000	2000	2390	2500	119	125	60-140	5	
1,1-Dichloroethane	ug/L	<24.4	2000	2000	2550	2660	128	133	60-140	4	
1,1-Dichloroethene	ug/L	<21.8	2000	2000	2540	2600	127	130	60-140	3	
1,1-Dichloropropene	ug/L	<34.8	2000	2000	2620	2700	131	135	60-140	3	
1,2,3-Trichlorobenzene	ug/L	<78.1	2000	2000	1880	1980	94	99	60-140	5	
1,2,3-Trichloropropane	ug/L	<27.1	2000	2000	1930	2020	96	101	60-140	5	
1,2,4-Trichlorobenzene	ug/L	<43.6	2000	2000	1940	1990	97	99	60-140	3	
1,2,4-Trimethylbenzene	ug/L	817	2000	2000	2860	2840	102	101	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<38.5	2000	2000	2000	2160	100	108	60-140	8	
1,2-Dibromoethane (EDB)	ug/L	<23.1	2000	2000	2030	2080	101	104	60-140	2	
1,2-Dichlorobenzene	ug/L	<24.0	2000	2000	2000	2050	100	102	60-140	2	
1,2-Dichloroethane	ug/L	<26.3	2000	2000	2070	2220	104	111	60-140	7	
1,2-Dichloropropane	ug/L	<18.3	2000	2000	2380	2480	119	124	60-140	4	
1,3,5-Trimethylbenzene	ug/L	<22.7	2000	2000	2210	2230	110	111	60-140	1	
1,3-Dichlorobenzene	ug/L	<25.0	2000	2000	1990	2030	100	102	60-140	2	
1,3-Dichloropropane	ug/L	<34.1	2000	2000	1970	2100	99	105	60-140	6	
1,4-Dichlorobenzene	ug/L	<24.9	2000	2000	1940	1990	97	99	60-140	3	
2,2-Dichloropropane	ug/L	<28.1	2000	2000	1940	1990	97	99	60-140	3	
2-Chlorotoluene	ug/L	<20.7	2000	2000	2090	2110	104	105	60-140	1	
4-Chlorotoluene	ug/L	<20.6	2000	2000	1930	1960	97	98	60-140	1	
Benzene	ug/L	1060	2000	2000	3480	3580	121	126	60-140	3	
Bromobenzene	ug/L	<21.5	2000	2000	2040	2060	102	103	60-140	1	
Bromochloromethane	ug/L	<25.8	2000	2000	2650	2760	133	138	60-140	4	
Bromodichloromethane	ug/L	<18.5	2000	2000	2190	2300	110	115	60-140	5	
Bromoform	ug/L	<40.5	2000	2000	1950	2030	97	102	60-140	4	
Bromomethane	ug/L	<172	2000	2000	1990	2180	99	109	60-140	9	
Carbon tetrachloride	ug/L	<23.2	2000	2000	2200	2320	110	116	60-140	5	
Chlorobenzene	ug/L	<22.5	2000	2000	2060	2100	103	105	60-140	2	
Chloroethane	ug/L	<58.5	2000	2000	1990	1970	99	99	60-140	1	
Chloroform	ug/L	<35.3	2000	2000	2470	2550	123	128	60-140	3	
Chloromethane	ug/L	<41.5	2000	2000	2120	2200	106	110	60-140	4	
cis-1,2-Dichloroethene	ug/L	<20.7	2000	2000	2450	2510	123	126	60-140	2	
cis-1,3-Dichloropropene	ug/L	<35.7	2000	2000	2320	2430	116	121	60-140	5	
Dibromochloromethane	ug/L	<40.2	2000	2000	2010	2000	101	100	60-140	1	
Dibromomethane	ug/L	<31.0	2000	2000	2470	2590	124	130	60-140	5	
Dichlorodifluoromethane	ug/L	<28.4	2000	2000	2000	2050	100	103	60-140	2	

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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 (1/6/21)
Pace Project No.: 92515075

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119496 3119497

Parameter	Units	92514450005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Diisopropyl ether	ug/L	39.3J	2000	2000	2330	2420	115	119	60-140	3	
Ethylbenzene	ug/L	557	2000	2000	2560	2590	100	102	60-140	1	
Hexachloro-1,3-butadiene	ug/L	<120	2000	2000	2050	2080	102	104	60-140	2	
Isopropylbenzene (Cumene)	ug/L	<23.8	2000	2000	2050	2100	103	105	60-140	3	
m&p-Xylene	ug/L	1920	4000	4000	5960	6010	101	102	60-140	1	
Methyl-tert-butyl ether	ug/L	89.1	2000	2000	2490	2590	120	125	60-140	4	
Methylene Chloride	ug/L	<150	2000	2000	2510	2570	126	129	60-140	2	
n-Butylbenzene	ug/L	<35.3	2000	2000	1940	1950	97	98	60-140	1	
n-Propylbenzene	ug/L	<24.1	2000	2000	2020	2060	101	103	60-140	2	
Naphthalene	ug/L	578	2000	2000	2580	2710	100	107	60-140	5	
o-Xylene	ug/L	1170	2000	2000	3270	3280	105	105	60-140	0	
sec-Butylbenzene	ug/L	<24.6	2000	2000	2000	2060	100	103	60-140	3	
Styrene	ug/L	<25.6	2000	2000	2020	2070	101	104	60-140	3	
tert-Butylbenzene	ug/L	<25.0	2000	2000	1730	1740	87	87	60-140	0	
Tetrachloroethene	ug/L	<23.2	2000	2000	2060	2100	103	105	60-140	2	
Toluene	ug/L	9700	2000	2000	11800	11800	103	106	60-140	1	
trans-1,2-Dichloroethene	ug/L	<25.7	2000	2000	2570	2630	128	131	60-140	2	
trans-1,3-Dichloropropene	ug/L	<39.4	2000	2000	2210	2280	110	114	60-140	3	
Trichloroethene	ug/L	<23.2	2000	2000	2450	2510	123	125	60-140	2	
Trichlorofluoromethane	ug/L	<33.6	2000	2000	2290	2380	115	119	60-140	4	
Vinyl chloride	ug/L	<40.7	2000	2000	2320	2410	116	121	60-140	4	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130		
4-Bromofluorobenzene (S)	%						101	102	70-130		
Toluene-d8 (S)	%						102	103	70-130		

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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 (1/6/21)
Pace Project No.: 92515075

QC Batch: 591182
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515075004, 92515075008, 92515075009

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515075004, 92515075008, 92515075009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
2,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
2-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
4-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
Benzene	ug/L	ND	0.50	01/07/21 10:15	
Bromobenzene	ug/L	ND	0.50	01/07/21 10:15	
Bromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromodichloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromoform	ug/L	ND	0.50	01/07/21 10:15	
Bromomethane	ug/L	ND	5.0	01/07/21 10:15	
Carbon tetrachloride	ug/L	ND	0.50	01/07/21 10:15	
Chlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
Chloroethane	ug/L	ND	1.0	01/07/21 10:15	
Chloroform	ug/L	ND	0.50	01/07/21 10:15	
Chloromethane	ug/L	ND	1.0	01/07/21 10:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Dibromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Dibromomethane	ug/L	ND	0.50	01/07/21 10:15	
Dichlorodifluoromethane	ug/L	ND	0.50	01/07/21 10:15	
Diisopropyl ether	ug/L	ND	0.50	01/07/21 10:15	

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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 (1/6/21)
Pace Project No.: 92515075

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515075004, 92515075008, 92515075009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/07/21 10:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/07/21 10:15	
m&p-Xylene	ug/L	ND	1.0	01/07/21 10:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/07/21 10:15	
Methylene Chloride	ug/L	ND	2.0	01/07/21 10:15	
n-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
n-Propylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Naphthalene	ug/L	ND	2.0	01/07/21 10:15	
o-Xylene	ug/L	ND	0.50	01/07/21 10:15	
sec-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Styrene	ug/L	ND	0.50	01/07/21 10:15	
tert-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Tetrachloroethene	ug/L	ND	0.50	01/07/21 10:15	
Toluene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Trichloroethene	ug/L	ND	0.50	01/07/21 10:15	
Trichlorofluoromethane	ug/L	ND	1.0	01/07/21 10:15	
Vinyl chloride	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dichloroethane-d4 (S)	%	96	70-130	01/07/21 10:15	
4-Bromofluorobenzene (S)	%	98	70-130	01/07/21 10:15	
Toluene-d8 (S)	%	104	70-130	01/07/21 10:15	

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,1-Trichloroethane	ug/L	50	60.3	121	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	60.0	120	60-140	
1,1-Dichloroethane	ug/L	50	62.9	126	60-140	
1,1-Dichloroethene	ug/L	50	59.6	119	60-140	
1,1-Dichloropropene	ug/L	50	62.3	125	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.6	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.9	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	60-140	
1,2-Dichlorobenzene	ug/L	50	49.9	100	60-140	
1,2-Dichloroethane	ug/L	50	51.8	104	60-140	
1,2-Dichloropropane	ug/L	50	58.8	118	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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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 (1/6/21)
Pace Project No.: 92515075

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.5	99	60-140	
1,3-Dichloropropane	ug/L	50	49.9	100	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	48.7	97	60-140	
4-Chlorotoluene	ug/L	50	47.3	95	60-140	
Benzene	ug/L	50	58.0	116	60-140	
Bromobenzene	ug/L	50	48.6	97	60-140	
Bromochloromethane	ug/L	50	66.5	133	60-140	
Bromodichloromethane	ug/L	50	54.9	110	60-140	
Bromoform	ug/L	50	51.5	103	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	52.7	105	60-140	
Chlorobenzene	ug/L	50	49.7	99	60-140	
Chloroethane	ug/L	50	36.0	72	60-140	
Chloroform	ug/L	50	59.5	119	60-140	
Chloromethane	ug/L	50	54.4	109	60-140	
cis-1,2-Dichloroethene	ug/L	50	58.1	116	60-140	
cis-1,3-Dichloropropene	ug/L	50	60.5	121	60-140	
Dibromochloromethane	ug/L	50	50.9	102	60-140	
Dibromomethane	ug/L	50	61.3	123	60-140	
Dichlorodifluoromethane	ug/L	50	51.6	103	60-140	
Diisopropyl ether	ug/L	50	56.1	112	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	60-140	
m&p-Xylene	ug/L	100	96.4	96	60-140	
Methyl-tert-butyl ether	ug/L	50	59.4	119	60-140	
Methylene Chloride	ug/L	50	59.8	120	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.7	93	60-140	
Naphthalene	ug/L	50	51.6	103	60-140	
o-Xylene	ug/L	50	49.9	100	60-140	
sec-Butylbenzene	ug/L	50	46.8	94	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	39.6	79	60-140	
Tetrachloroethene	ug/L	50	50.1	100	60-140	
Toluene	ug/L	50	57.8	116	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.8	124	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Trichloroethene	ug/L	50	58.2	116	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	56.6	113	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (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 (1/6/21)
Pace Project No.: 92515075

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 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	100	100	106	107	106	107	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	100	100	135	133	135	133	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	103	105	103	105	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	100	100	127	133	127	133	60-140	5	
1,1-Dichloroethane	ug/L	ND	100	100	140	141	140	141	60-140	1	M1
1,1-Dichloroethene	ug/L	ND	100	100	140	139	140	139	60-140	0	
1,1-Dichloropropene	ug/L	ND	100	100	143	146	143	146	60-140	2	M1
1,2,3-Trichlorobenzene	ug/L	ND	100	100	96.4	102	96	102	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	100	100	103	100	103	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	98.0	105	98	105	60-140	7	
1,2,4-Trimethylbenzene	ug/L	28.9	100	100	135	137	106	108	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	107	113	107	113	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	108	109	108	109	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	100	100	104	106	104	106	60-140	2	
1,2-Dichloroethane	ug/L	ND	100	100	113	113	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	100	100	130	134	130	134	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	100	100	116	117	116	117	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	100	100	103	105	103	105	60-140	3	
1,3-Dichloropropane	ug/L	ND	100	100	107	109	107	109	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	100	100	102	102	102	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	100	100	123	121	123	121	60-140	2	
2-Chlorotoluene	ug/L	ND	100	100	107	109	107	109	60-140	2	
4-Chlorotoluene	ug/L	ND	100	100	101	102	101	102	60-140	1	
Benzene	ug/L	726	100	100	886	911	160	185	60-140	3	M1
Bromobenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Bromochloromethane	ug/L	ND	100	100	147	148	147	148	60-140	1	M1
Bromodichloromethane	ug/L	ND	100	100	117	122	117	122	60-140	4	
Bromoform	ug/L	ND	100	100	105	106	105	106	60-140	1	
Bromomethane	ug/L	ND	100	100	111	126	111	126	60-140	13	
Carbon tetrachloride	ug/L	ND	100	100	121	124	121	124	60-140	2	
Chlorobenzene	ug/L	ND	100	100	107	109	107	109	60-140	2	
Chloroethane	ug/L	ND	100	100	111	106	111	106	60-140	5	
Chloroform	ug/L	ND	100	100	137	135	135	134	60-140	1	
Chloromethane	ug/L	ND	100	100	122	123	122	123	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	100	100	132	133	132	133	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	100	100	129	131	129	131	60-140	2	
Dibromochloromethane	ug/L	ND	100	100	107	106	107	106	60-140	1	
Dibromomethane	ug/L	ND	100	100	136	139	136	139	60-140	2	
Dichlorodifluoromethane	ug/L	ND	100	100	109	109	109	109	60-140	0	
Diisopropyl ether	ug/L	108	100	100	240	239	132	131	60-140	1	
Ethylbenzene	ug/L	8.0	100	100	113	115	105	107	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	112	109	112	60-140	3	
Isopropylbenzene (Cumene)	ug/L	ND	100	100	108	109	108	109	60-140	1	
m&p-Xylene	ug/L	128	200	200	344	347	108	110	60-140	1	
Methyl-tert-butyl ether	ug/L	50.0	100	100	184	186	134	136	60-140	1	
Methylene Chloride	ug/L	ND	100	100	136	134	136	134	60-140	1	

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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 (1/6/21)
Pace Project No.: 92515075

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	100	100	101	103	101	103	60-140	2	
n-Propylbenzene	ug/L	ND	100	100	105	107	105	107	60-140	2	
Naphthalene	ug/L	ND	100	100	101	110	94	102	60-140	8	
o-Xylene	ug/L	68.5	100	100	177	180	109	111	60-140	1	
sec-Butylbenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Styrene	ug/L	ND	100	100	106	107	106	107	60-140	1	
tert-Butylbenzene	ug/L	ND	100	100	90.4	91.4	90	91	60-140	1	
Tetrachloroethene	ug/L	ND	100	100	110	114	110	114	60-140	3	
Toluene	ug/L	96.1	100	100	229	236	133	140	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	100	100	142	139	142	139	60-140	2	M1
trans-1,3-Dichloropropene	ug/L	ND	100	100	121	126	121	126	60-140	4	
Trichloroethene	ug/L	ND	100	100	132	135	132	135	60-140	2	
Trichlorofluoromethane	ug/L	ND	100	100	126	128	126	128	60-140	2	
Vinyl chloride	ug/L	ND	100	100	124	126	124	126	60-140	2	
1,2-Dichloroethane-d4 (S)	%						97	96	70-130		
4-Bromofluorobenzene (S)	%						102	100	70-130		
Toluene-d8 (S)	%						103	105	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 (1/6/21)
Pace Project No.: 92515075

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 (1/6/21)
Pace Project No.: 92515075

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515075001	**MW-16**	MADEPV	1602614	MADEP VPH	1602614
92515075002	**MW-17**	MADEPV	1602614	MADEP VPH	1602614
92515075003	**MW-19**	MADEPV	1602614	MADEP VPH	1602614
92515075004	**MW-21**	MADEPV	1602614	MADEP VPH	1602614
92515075005	**MW-23**	MADEPV	1602614	MADEP VPH	1602614
92515075006	**MW-28**	MADEPV	1602614	MADEP VPH	1602614
92515075007	**MW-31**	MADEPV	1602614	MADEP VPH	1602614
92515075008	**MW-40**	MADEPV	1602614	MADEP VPH	1602614
92515075008	**MW-40**	MADEPV	1603302	MADEP VPH	1603302
92515075009	**Dup-1-20210106**	MADEPV	1602614	MADEP VPH	1602614
92515075009	**Dup-1-20210106**	MADEPV	1603302	MADEP VPH	1603302
92515075010	**FB-1-20210106**	MADEPV	1602614	MADEP VPH	1602614
92515075001	**MW-16**	EPA 3010A	591415	EPA 6010D	591431
92515075002	**MW-17**	EPA 3010A	591415	EPA 6010D	591431
92515075003	**MW-19**	EPA 3010A	591415	EPA 6010D	591431
92515075004	**MW-21**	EPA 3010A	591415	EPA 6010D	591431
92515075005	**MW-23**	EPA 3010A	591415	EPA 6010D	591431
92515075006	**MW-28**	EPA 3010A	591415	EPA 6010D	591431
92515075007	**MW-31**	EPA 3010A	591415	EPA 6010D	591431
92515075008	**MW-40**	EPA 3010A	591415	EPA 6010D	591431
92515075009	**Dup-1-20210106**	EPA 3010A	591415	EPA 6010D	591431
92515075001	**MW-16**	SM 6200B	590898		
92515075002	**MW-17**	SM 6200B	590898		
92515075003	**MW-19**	SM 6200B	590898		
92515075004	**MW-21**	SM 6200B	591182		
92515075005	**MW-23**	SM 6200B	590898		
92515075006	**MW-28**	SM 6200B	590898		
92515075007	**MW-31**	SM 6200B	590898		
92515075008	**MW-40**	SM 6200B	591182		
92515075009	**Dup-1-20210106**	SM 6200B	591182		
92515075010	**FB-1-20210106**	SM 6200B	590898		
92515075011	**Trip Blank**	SM 6200B	590898		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project # WO# : 92515075

92515075

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 1-6-21 AMP

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 92T064

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **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): 4.0

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

Additional sample "Dup-1-20210106" 1/6/21 @ 00:00 (009)

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# : 92515075**

PM: NMG Due Date: 01/13/21

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.

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	Analyses Test Y/N	6200	VPH	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	92515075
1	MW-16	WW	G			1/6/21	1115		8			X	X						X	X	X			001
2	MW-17						1040																	002
3	MW-19						1245																	003
4	MW-21						1215																	004
5	MW-23						1110																	005
6	MW-28						1016																	006
7	MW-31						1148																	007
8	MW-40						1210		1															008
9	FB-1-20210106						1300		7															no 6010 on FB 010
10	Trip Blank						~~1300~~	Lab Provided														X		011
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Emily R. Love/AECOM	1/6/21	1322	MD APace HV	1-6-21	13:22	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Emily Love

SIGNATURE of SAMPLER: Emily R. Love DATE Signed: 1/6/2021

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

January 11, 2021

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

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Angela 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.: 92515213

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.: 92515213

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515213001	**MW-59D (150-160)**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515213002	**DUP-3**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515213003	**EB-3**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515213004	**FB-3**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515213005	**TB**	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
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: MW-59D (150-160) **Lab ID: 92515213001** Collected: 01/06/21 14:50 Received: 01/06/21 17:05 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	01/09/21 15:17	01/09/21 15:17		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 15:17	01/09/21 15:17		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 15:17	01/09/21 15:17	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 15:17	01/09/21 15:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.2	%	70.0-130	1	01/09/21 15:17	01/09/21 15:17	615-59-8FID	
2,5-Dibromotoluene (PID)	82.3	%	70.0-130	1	01/09/21 15:17	01/09/21 15:17	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**6.9**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:24	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 15:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 15:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 15:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 15:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 15:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 15:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 15:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 15:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 15:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 15:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 15:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 15:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 15:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 15:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 15:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 15:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:03	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: MW-59D (150-160) **Lab ID: 92515213001** Collected: 01/06/21 14:50 Received: 01/06/21 17:05 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		01/07/21 15:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 15:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 15:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 15:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 15:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 15:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 15:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 15:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 15:03	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 15:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 15:03	127-18-4	
Toluene	**34.3**	ug/L	0.50	1		01/07/21 15:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 15:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 15:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 15:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 15:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 15:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 15:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/07/21 15:03	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/07/21 15:03	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 15:03	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: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: DUP-3 **Lab ID: 92515213002** Collected: 01/06/21 14:50 Received: 01/06/21 17:05 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	01/09/21 15:50	01/09/21 15:50		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 15:50	01/09/21 15:50		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 15:50	01/09/21 15:50	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 15:50	01/09/21 15:50	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.6	%	70.0-130	1	01/09/21 15:50	01/09/21 15:50	615-59-8FID	
2,5-Dibromotoluene (PID)	81.9	%	70.0-130	1	01/09/21 15:50	01/09/21 15:50	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**9.9**	ug/L	5.0	1	01/07/21 02:07	01/08/21 14:28	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 15:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 15:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 15:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 15:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 15:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 15:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 15:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 15:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 15:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 15:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 15:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 15:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 15:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 15:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 15:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 15:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:21	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: DUP-3 **Lab ID: 92515213002** Collected: 01/06/21 14:50 Received: 01/06/21 17:05 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		01/07/21 15:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 15:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 15:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 15:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 15:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 15:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 15:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 15:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 15:21	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 15:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 15:21	127-18-4	
Toluene	**35.0**	ug/L	0.50	1		01/07/21 15:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 15:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 15:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 15:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 15:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 15:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 15:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/07/21 15:21	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 15:21	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		01/07/21 15:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: EB-3 **Lab ID: 92515213003** Collected: 01/06/21 11:00 Received: 01/06/21 17:05 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	01/09/21 06:02	01/09/21 06:02		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 06:02	01/09/21 06:02		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 06:02	01/09/21 06:02	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 06:02	01/09/21 06:02	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.1	%	70.0-130	1	01/09/21 06:02	01/09/21 06:02	615-59-8FID	
2,5-Dibromotoluene (PID)	79.3	%	70.0-130	1	01/09/21 06:02	01/09/21 06:02	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	01/07/21 02:07	01/07/21 17:52	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 11:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 11:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 11:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 11:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 11:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 11:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 11:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 11:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 11:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 11:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 11:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 11:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 11:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 11:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 11:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 11:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 11:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 11:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 11:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 11:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 11:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 11:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 11:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 11:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 11:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 11:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 11:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 11:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 11:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 11:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 11:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 11:27	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-LI-2448 Incident
Pace Project No.: 92515213

Sample: EB-3 **Lab ID: 92515213003** Collected: 01/06/21 11:00 Received: 01/06/21 17:05 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		01/07/21 11:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 11:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 11:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 11:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 11:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 11:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 11:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 11:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 11:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 11:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 11:27	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 11:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 11:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 11:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 11:27	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 11:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 11:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 11:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 11:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 11:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 11:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 11:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 11:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 11:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 11:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 11:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 11:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 11:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		01/07/21 11:27	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 11:27	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/07/21 11:27	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: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: FB-3 **Lab ID: 92515213004** Collected: 01/06/21 11:00 Received: 01/06/21 17:05 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	01/09/21 16:23	01/09/21 16:23		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 16:23	01/09/21 16:23		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 16:23	01/09/21 16:23	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 16:23	01/09/21 16:23	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.7	%	70.0-130	1	01/09/21 16:23	01/09/21 16:23	615-59-8FID	
2,5-Dibromotoluene (PID)	80.1	%	70.0-130	1	01/09/21 16:23	01/09/21 16:23	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	01/07/21 02:07	01/07/21 17:55	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 11:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 11:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 11:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 11:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 11:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 11:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 11:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 11:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 11:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 11:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 11:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 11:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 11:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 11:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 11:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 11:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 11:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 11:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 11:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 11:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 11:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 11:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 11:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 11:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 11:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 11:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 11:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 11:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 11:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 11:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 11:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 11:45	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: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: FB-3 **Lab ID: 92515213004** Collected: 01/06/21 11:00 Received: 01/06/21 17:05 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		01/07/21 11:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 11:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 11:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 11:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 11:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 11:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 11:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 11:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 11:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 11:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 11:45	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 11:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 11:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 11:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 11:45	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 11:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 11:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 11:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 11:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 11:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 11:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 11:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 11:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 11:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 11:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 11:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 11:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 11:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/07/21 11:45	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 11:45	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 11:45	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: 2020-LI-2448 Incident
Pace Project No.: 92515213

Sample: TB **Lab ID: 92515213005** Collected: 01/06/21 00:00 Received: 01/06/21 17:05 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		01/07/21 12:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 12:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 12:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 12:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 12:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 12:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 12:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 12:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 12:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 12:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 12:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 12:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 12:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 12:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 12:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 12:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 12:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 12:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 12:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 12:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 12:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 12:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 12:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 12:03	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 12:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:03	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 Incident
Pace Project No.: 92515213

Sample: TB **Lab ID: 92515213005** Collected: 01/06/21 00:00 Received: 01/06/21 17:05 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		01/07/21 12:03	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 12:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 12:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 12:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 12:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 12:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 12:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 12:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/07/21 12:03	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/07/21 12:03	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 12:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

QC Batch: 1602815 Analysis Method: MADEP VPH
QC Batch Method: MADEPV Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515213001, 92515213002, 92515213003, 92515213004

METHOD BLANK: R3611153-3 Matrix: Water
Associated Lab Samples: 92515213001, 92515213002, 92515213003, 92515213004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 05:28	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 05:28	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 05:28	
Total VPH	ug/L	ND	100	01/09/21 05:28	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/09/21 05:28	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 05:28	

LABORATORY CONTROL SAMPLE & LCSD: R3611153-1 R3611153-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1090	1080	90.8	90.0	70.0-130	0.922	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1550	114	111	70.0-130	2.55	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	200	197	100	98.5	70.0-130	1.51	25	
Total VPH	ug/L	2800	2880	2830	103	101	70.0-130	1.75	25	
2,5-Dibromotoluene (FID)	%				95.5	94.9	70.0-130			
2,5-Dibromotoluene (PID)	%				85.1	85.8	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

QC Batch: 591103
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515213001, 92515213002

METHOD BLANK: 3120771 Matrix: Water
Associated Lab Samples: 92515213001, 92515213002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/08/21 12:52	

LABORATORY CONTROL SAMPLE: 3120772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120773 3120774

Parameter	Units	92514598004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	9.7	500	500	500	500	98	98	75-125	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515213003, 92515213004

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92515213003, 92515213004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

QC Batch: 591182 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515213001, 92515213002, 92515213003, 92515213004, 92515213005

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515213001, 92515213002, 92515213003, 92515213004, 92515213005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
2,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
2-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
4-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
Benzene	ug/L	ND	0.50	01/07/21 10:15	
Bromobenzene	ug/L	ND	0.50	01/07/21 10:15	
Bromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromodichloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromoform	ug/L	ND	0.50	01/07/21 10:15	
Bromomethane	ug/L	ND	5.0	01/07/21 10:15	
Carbon tetrachloride	ug/L	ND	0.50	01/07/21 10:15	
Chlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
Chloroethane	ug/L	ND	1.0	01/07/21 10:15	
Chloroform	ug/L	ND	0.50	01/07/21 10:15	
Chloromethane	ug/L	ND	1.0	01/07/21 10:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Dibromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Dibromomethane	ug/L	ND	0.50	01/07/21 10:15	
Dichlorodifluoromethane	ug/L	ND	0.50	01/07/21 10:15	
Diisopropyl ether	ug/L	ND	0.50	01/07/21 10:15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515213001, 92515213002, 92515213003, 92515213004, 92515213005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/07/21 10:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/07/21 10:15	
m&p-Xylene	ug/L	ND	1.0	01/07/21 10:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/07/21 10:15	
Methylene Chloride	ug/L	ND	2.0	01/07/21 10:15	
n-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
n-Propylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Naphthalene	ug/L	ND	2.0	01/07/21 10:15	
o-Xylene	ug/L	ND	0.50	01/07/21 10:15	
sec-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Styrene	ug/L	ND	0.50	01/07/21 10:15	
tert-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Tetrachloroethene	ug/L	ND	0.50	01/07/21 10:15	
Toluene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Trichloroethene	ug/L	ND	0.50	01/07/21 10:15	
Trichlorofluoromethane	ug/L	ND	1.0	01/07/21 10:15	
Vinyl chloride	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dichloroethane-d4 (S)	%	96	70-130	01/07/21 10:15	
4-Bromofluorobenzene (S)	%	98	70-130	01/07/21 10:15	
Toluene-d8 (S)	%	104	70-130	01/07/21 10:15	

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,1-Trichloroethane	ug/L	50	60.3	121	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	60.0	120	60-140	
1,1-Dichloroethane	ug/L	50	62.9	126	60-140	
1,1-Dichloroethene	ug/L	50	59.6	119	60-140	
1,1-Dichloropropene	ug/L	50	62.3	125	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.6	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.9	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	60-140	
1,2-Dichlorobenzene	ug/L	50	49.9	100	60-140	
1,2-Dichloroethane	ug/L	50	51.8	104	60-140	
1,2-Dichloropropane	ug/L	50	58.8	118	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.5	99	60-140	
1,3-Dichloropropane	ug/L	50	49.9	100	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	48.7	97	60-140	
4-Chlorotoluene	ug/L	50	47.3	95	60-140	
Benzene	ug/L	50	58.0	116	60-140	
Bromobenzene	ug/L	50	48.6	97	60-140	
Bromochloromethane	ug/L	50	66.5	133	60-140	
Bromodichloromethane	ug/L	50	54.9	110	60-140	
Bromoform	ug/L	50	51.5	103	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	52.7	105	60-140	
Chlorobenzene	ug/L	50	49.7	99	60-140	
Chloroethane	ug/L	50	36.0	72	60-140	
Chloroform	ug/L	50	59.5	119	60-140	
Chloromethane	ug/L	50	54.4	109	60-140	
cis-1,2-Dichloroethene	ug/L	50	58.1	116	60-140	
cis-1,3-Dichloropropene	ug/L	50	60.5	121	60-140	
Dibromochloromethane	ug/L	50	50.9	102	60-140	
Dibromomethane	ug/L	50	61.3	123	60-140	
Dichlorodifluoromethane	ug/L	50	51.6	103	60-140	
Diisopropyl ether	ug/L	50	56.1	112	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	60-140	
m&p-Xylene	ug/L	100	96.4	96	60-140	
Methyl-tert-butyl ether	ug/L	50	59.4	119	60-140	
Methylene Chloride	ug/L	50	59.8	120	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.7	93	60-140	
Naphthalene	ug/L	50	51.6	103	60-140	
o-Xylene	ug/L	50	49.9	100	60-140	
sec-Butylbenzene	ug/L	50	46.8	94	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	39.6	79	60-140	
Tetrachloroethene	ug/L	50	50.1	100	60-140	
Toluene	ug/L	50	57.8	116	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.8	124	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Trichloroethene	ug/L	50	58.2	116	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	56.6	113	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 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	100	100	106	107	106	107	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	100	100	135	133	135	133	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	103	105	103	105	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	100	100	127	133	127	133	60-140	5	
1,1-Dichloroethane	ug/L	ND	100	100	140	141	140	141	60-140	1	M1
1,1-Dichloroethene	ug/L	ND	100	100	140	139	140	139	60-140	0	
1,1-Dichloropropene	ug/L	ND	100	100	143	146	143	146	60-140	2	M1
1,2,3-Trichlorobenzene	ug/L	ND	100	100	96.4	102	96	102	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	100	100	103	100	103	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	98.0	105	98	105	60-140	7	
1,2,4-Trimethylbenzene	ug/L	28.9	100	100	135	137	106	108	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	107	113	107	113	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	108	109	108	109	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	100	100	104	106	104	106	60-140	2	
1,2-Dichloroethane	ug/L	ND	100	100	113	113	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	100	100	130	134	130	134	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	100	100	116	117	116	117	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	100	100	103	105	103	105	60-140	3	
1,3-Dichloropropane	ug/L	ND	100	100	107	109	107	109	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	100	100	102	102	102	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	100	100	123	121	123	121	60-140	2	
2-Chlorotoluene	ug/L	ND	100	100	107	109	107	109	60-140	2	
4-Chlorotoluene	ug/L	ND	100	100	101	102	101	102	60-140	1	
Benzene	ug/L	726	100	100	886	911	160	185	60-140	3	M1
Bromobenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Bromochloromethane	ug/L	ND	100	100	147	148	147	148	60-140	1	M1
Bromodichloromethane	ug/L	ND	100	100	117	122	117	122	60-140	4	
Bromoform	ug/L	ND	100	100	105	106	105	106	60-140	1	
Bromomethane	ug/L	ND	100	100	111	126	111	126	60-140	13	
Carbon tetrachloride	ug/L	ND	100	100	121	124	121	124	60-140	2	
Chlorobenzene	ug/L	ND	100	100	107	109	107	109	60-140	2	
Chloroethane	ug/L	ND	100	100	111	106	111	106	60-140	5	
Chloroform	ug/L	ND	100	100	137	135	135	134	60-140	1	
Chloromethane	ug/L	ND	100	100	122	123	122	123	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	100	100	132	133	132	133	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	100	100	129	131	129	131	60-140	2	
Dibromochloromethane	ug/L	ND	100	100	107	106	107	106	60-140	1	
Dibromomethane	ug/L	ND	100	100	136	139	136	139	60-140	2	
Dichlorodifluoromethane	ug/L	ND	100	100	109	109	109	109	60-140	0	
Diisopropyl ether	ug/L	108	100	100	240	239	132	131	60-140	1	
Ethylbenzene	ug/L	8.0	100	100	113	115	105	107	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	112	109	112	60-140	3	
Isopropylbenzene (Cumene)	ug/L	ND	100	100	108	109	108	109	60-140	1	
m&p-Xylene	ug/L	128	200	200	344	347	108	110	60-140	1	
Methyl-tert-butyl ether	ug/L	50.0	100	100	184	186	134	136	60-140	1	
Methylene Chloride	ug/L	ND	100	100	136	134	136	134	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 Incident
Pace Project No.: 92515213

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	100	100	101	103	101	103	60-140	2	
n-Propylbenzene	ug/L	ND	100	100	105	107	105	107	60-140	2	
Naphthalene	ug/L	ND	100	100	101	110	94	102	60-140	8	
o-Xylene	ug/L	68.5	100	100	177	180	109	111	60-140	1	
sec-Butylbenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Styrene	ug/L	ND	100	100	106	107	106	107	60-140	1	
tert-Butylbenzene	ug/L	ND	100	100	90.4	91.4	90	91	60-140	1	
Tetrachloroethene	ug/L	ND	100	100	110	114	110	114	60-140	3	
Toluene	ug/L	96.1	100	100	229	236	133	140	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	100	100	142	139	142	139	60-140	2	M1
trans-1,3-Dichloropropene	ug/L	ND	100	100	121	126	121	126	60-140	4	
Trichloroethene	ug/L	ND	100	100	132	135	132	135	60-140	2	
Trichlorofluoromethane	ug/L	ND	100	100	126	128	126	128	60-140	2	
Vinyl chloride	ug/L	ND	100	100	124	126	124	126	60-140	2	
1,2-Dichloroethane-d4 (S)	%						97	96	70-130		
4-Bromofluorobenzene (S)	%						102	100	70-130		
Toluene-d8 (S)	%						103	105	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
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(704)875-9092

QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92515213

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-LI-2448 Incident
Pace Project No.: 92515213

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515213001	**MW-59D (150-160)**	MADEPV	1602815	MADEP VPH	1602815
92515213002	**DUP-3**	MADEPV	1602815	MADEP VPH	1602815
92515213003	**EB-3**	MADEPV	1602815	MADEP VPH	1602815
92515213004	**FB-3**	MADEPV	1602815	MADEP VPH	1602815
92515213001	**MW-59D (150-160)**	EPA 3010A	591103	EPA 6010D	591119
92515213002	**DUP-3**	EPA 3010A	591103	EPA 6010D	591119
92515213003	**EB-3**	EPA 3010A	591105	EPA 6010D	591117
92515213004	**FB-3**	EPA 3010A	591105	EPA 6010D	591117
92515213001	**MW-59D (150-160)**	SM 6200B	591182		
92515213002	**DUP-3**	SM 6200B	591182		
92515213003	**EB-3**	SM 6200B	591182		
92515213004	**FB-3**	SM 6200B	591182		
92515213005	**TB**	SM 6200B	591182		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92515213

92515213

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: 2020-4-2448 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 Frete	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature): NFrete	Turnaround Date Required: 3 day TAT 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	VOCs 6200B	MADEP VPH	Lead							Lab Sample # / Comments
MW-59D (150-160)	GW	G	1-6-21	1450				8	X	X	X							001
DUP-3	GW			-				8	X	X	X							002
EB-3	OT			1100				8	X	X	X							003
FB-3	OT			-				8	X	X	X							004
Trip Blank	OT			-				2	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: Bubble bags

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

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

Lab Tracking #: 2529448

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: 5.7 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.6 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Frete / Apex	1-6-21 1705	PACE Hu	1/6/21 1705
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

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# : 92515213**

PM: AMB Due Date: 01/11/21

CLIENT: 92-APEX MOOR

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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515214

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515214

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 (1/6/21)
Pace Project No.: 92515214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515214001	**MW-69**	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515214002	**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
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(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515214

Sample: MW-69 **Lab ID: 92515214001** Collected: 01/06/21 09:40 Received: 01/06/21 16:50 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	01/09/21 16:57	01/09/21 16:57		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 16:57	01/09/21 16:57		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 16:57	01/09/21 16:57	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 16:57	01/09/21 16:57	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.6	%	70.0-130	1	01/09/21 16:57	01/09/21 16:57	615-59-8FID	
2,5-Dibromotoluene (PID)	80.9	%	70.0-130	1	01/09/21 16:57	01/09/21 16:57	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**123**	ug/L	5.0	1	01/08/21 01:37	01/10/21 18:53	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 15:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 15:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 15:39	74-97-5	
Bromodichloromethane	**0.55**	ug/L	0.50	1		01/07/21 15:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 15:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 15:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 15:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 15:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 15:39	75-00-3	
Chloroform	**4.6**	ug/L	0.50	1		01/07/21 15:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 15:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 15:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 15:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 15:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 15:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 15:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:39	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 (1/6/21)
Pace Project No.: 92515214

Sample: MW-69 **Lab ID: 92515214001** Collected: 01/06/21 09:40 Received: 01/06/21 16:50 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		01/07/21 15:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 15:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 15:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 15:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 15:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 15:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 15:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 15:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 15:39	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 15:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 15:39	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 15:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 15:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 15:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 15:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 15:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 15:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 15:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/07/21 15:39	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 15:39	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 15:39	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 (1/6/21)
Pace Project No.: 92515214

Sample: Trip Blank **Lab ID: 92515214002** Collected: 01/06/21 00:00 Received: 01/06/21 16:50 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		01/07/21 12:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 12:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 12:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 12:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 12:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 12:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 12:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 12:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 12:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 12:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 12:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 12:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 12:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 12:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 12:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 12:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 12:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 12:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 12:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 12:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 12:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 12:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 12:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 12:21	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:21	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 (1/6/21)
Pace Project No.: 92515214

Sample: Trip Blank **Lab ID: 92515214002** Collected: 01/06/21 00:00 Received: 01/06/21 16:50 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		01/07/21 12:21	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 12:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 12:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 12:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 12:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 12:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 12:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 12:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/07/21 12:21	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 12:21	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 12:21	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 (1/6/21)
Pace Project No.: 92515214

QC Batch: 1602815
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92515214001

METHOD BLANK: R3611153-3 Matrix: Water
Associated Lab Samples: 92515214001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 05:28	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 05:28	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 05:28	
Total VPH	ug/L	ND	100	01/09/21 05:28	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/09/21 05:28	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 05:28	

LABORATORY CONTROL SAMPLE & LCSD: R3611153-1 R3611153-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1090	1080	90.8	90.0	70.0-130	0.922	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1550	114	111	70.0-130	2.55	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	200	197	100	98.5	70.0-130	1.51	25	
Total VPH	ug/L	2800	2880	2830	103	101	70.0-130	1.75	25	
2,5-Dibromotoluene (FID)	%				95.5	94.9	70.0-130			
2,5-Dibromotoluene (PID)	%				85.1	85.8	70.0-130			

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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 (1/6/21)
Pace Project No.: 92515214

QC Batch: 591416
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515214001

METHOD BLANK: 3122333 Matrix: Water
Associated Lab Samples: 92515214001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/10/21 17:30	

LABORATORY CONTROL SAMPLE: 3122334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	481	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122335 3122336

Parameter	Units	92514178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	460	466	92	93	75-125	1	

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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 (1/6/21)
Pace Project No.: 92515214

QC Batch: 591182
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515214001, 92515214002

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515214001, 92515214002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
2,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
2-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
4-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
Benzene	ug/L	ND	0.50	01/07/21 10:15	
Bromobenzene	ug/L	ND	0.50	01/07/21 10:15	
Bromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromodichloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromoform	ug/L	ND	0.50	01/07/21 10:15	
Bromomethane	ug/L	ND	5.0	01/07/21 10:15	
Carbon tetrachloride	ug/L	ND	0.50	01/07/21 10:15	
Chlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
Chloroethane	ug/L	ND	1.0	01/07/21 10:15	
Chloroform	ug/L	ND	0.50	01/07/21 10:15	
Chloromethane	ug/L	ND	1.0	01/07/21 10:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Dibromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Dibromomethane	ug/L	ND	0.50	01/07/21 10:15	
Dichlorodifluoromethane	ug/L	ND	0.50	01/07/21 10:15	
Diisopropyl ether	ug/L	ND	0.50	01/07/21 10:15	

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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 (1/6/21)
Pace Project No.: 92515214

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515214001, 92515214002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/07/21 10:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/07/21 10:15	
m&p-Xylene	ug/L	ND	1.0	01/07/21 10:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/07/21 10:15	
Methylene Chloride	ug/L	ND	2.0	01/07/21 10:15	
n-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
n-Propylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Naphthalene	ug/L	ND	2.0	01/07/21 10:15	
o-Xylene	ug/L	ND	0.50	01/07/21 10:15	
sec-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Styrene	ug/L	ND	0.50	01/07/21 10:15	
tert-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Tetrachloroethene	ug/L	ND	0.50	01/07/21 10:15	
Toluene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Trichloroethene	ug/L	ND	0.50	01/07/21 10:15	
Trichlorofluoromethane	ug/L	ND	1.0	01/07/21 10:15	
Vinyl chloride	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dichloroethane-d4 (S)	%	96	70-130	01/07/21 10:15	
4-Bromofluorobenzene (S)	%	98	70-130	01/07/21 10:15	
Toluene-d8 (S)	%	104	70-130	01/07/21 10:15	

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,1-Trichloroethane	ug/L	50	60.3	121	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	60.0	120	60-140	
1,1-Dichloroethane	ug/L	50	62.9	126	60-140	
1,1-Dichloroethene	ug/L	50	59.6	119	60-140	
1,1-Dichloropropene	ug/L	50	62.3	125	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.6	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.9	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	60-140	
1,2-Dichlorobenzene	ug/L	50	49.9	100	60-140	
1,2-Dichloroethane	ug/L	50	51.8	104	60-140	
1,2-Dichloropropane	ug/L	50	58.8	118	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515214

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.5	99	60-140	
1,3-Dichloropropane	ug/L	50	49.9	100	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	48.7	97	60-140	
4-Chlorotoluene	ug/L	50	47.3	95	60-140	
Benzene	ug/L	50	58.0	116	60-140	
Bromobenzene	ug/L	50	48.6	97	60-140	
Bromochloromethane	ug/L	50	66.5	133	60-140	
Bromodichloromethane	ug/L	50	54.9	110	60-140	
Bromoform	ug/L	50	51.5	103	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	52.7	105	60-140	
Chlorobenzene	ug/L	50	49.7	99	60-140	
Chloroethane	ug/L	50	36.0	72	60-140	
Chloroform	ug/L	50	59.5	119	60-140	
Chloromethane	ug/L	50	54.4	109	60-140	
cis-1,2-Dichloroethene	ug/L	50	58.1	116	60-140	
cis-1,3-Dichloropropene	ug/L	50	60.5	121	60-140	
Dibromochloromethane	ug/L	50	50.9	102	60-140	
Dibromomethane	ug/L	50	61.3	123	60-140	
Dichlorodifluoromethane	ug/L	50	51.6	103	60-140	
Diisopropyl ether	ug/L	50	56.1	112	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	60-140	
m&p-Xylene	ug/L	100	96.4	96	60-140	
Methyl-tert-butyl ether	ug/L	50	59.4	119	60-140	
Methylene Chloride	ug/L	50	59.8	120	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.7	93	60-140	
Naphthalene	ug/L	50	51.6	103	60-140	
o-Xylene	ug/L	50	49.9	100	60-140	
sec-Butylbenzene	ug/L	50	46.8	94	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	39.6	79	60-140	
Tetrachloroethene	ug/L	50	50.1	100	60-140	
Toluene	ug/L	50	57.8	116	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.8	124	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Trichloroethene	ug/L	50	58.2	116	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	56.6	113	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (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 (1/6/21)
Pace Project No.: 92515214

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 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	100	100	106	107	106	107	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	100	100	135	133	135	133	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	103	105	103	105	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	100	100	127	133	127	133	60-140	5	
1,1-Dichloroethane	ug/L	ND	100	100	140	141	140	141	60-140	1	M1
1,1-Dichloroethene	ug/L	ND	100	100	140	139	140	139	60-140	0	
1,1-Dichloropropene	ug/L	ND	100	100	143	146	143	146	60-140	2	M1
1,2,3-Trichlorobenzene	ug/L	ND	100	100	96.4	102	96	102	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	100	100	103	100	103	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	98.0	105	98	105	60-140	7	
1,2,4-Trimethylbenzene	ug/L	28.9	100	100	135	137	106	108	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	107	113	107	113	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	108	109	108	109	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	100	100	104	106	104	106	60-140	2	
1,2-Dichloroethane	ug/L	ND	100	100	113	113	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	100	100	130	134	130	134	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	100	100	116	117	116	117	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	100	100	103	105	103	105	60-140	3	
1,3-Dichloropropane	ug/L	ND	100	100	107	109	107	109	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	100	100	102	102	102	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	100	100	123	121	123	121	60-140	2	
2-Chlorotoluene	ug/L	ND	100	100	107	109	107	109	60-140	2	
4-Chlorotoluene	ug/L	ND	100	100	101	102	101	102	60-140	1	
Benzene	ug/L	726	100	100	886	911	160	185	60-140	3	M1
Bromobenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Bromochloromethane	ug/L	ND	100	100	147	148	147	148	60-140	1	M1
Bromodichloromethane	ug/L	ND	100	100	117	122	117	122	60-140	4	
Bromoform	ug/L	ND	100	100	105	106	105	106	60-140	1	
Bromomethane	ug/L	ND	100	100	111	126	111	126	60-140	13	
Carbon tetrachloride	ug/L	ND	100	100	121	124	121	124	60-140	2	
Chlorobenzene	ug/L	ND	100	100	107	109	107	109	60-140	2	
Chloroethane	ug/L	ND	100	100	111	106	111	106	60-140	5	
Chloroform	ug/L	ND	100	100	137	135	135	134	60-140	1	
Chloromethane	ug/L	ND	100	100	122	123	122	123	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	100	100	132	133	132	133	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	100	100	129	131	129	131	60-140	2	
Dibromochloromethane	ug/L	ND	100	100	107	106	107	106	60-140	1	
Dibromomethane	ug/L	ND	100	100	136	139	136	139	60-140	2	
Dichlorodifluoromethane	ug/L	ND	100	100	109	109	109	109	60-140	0	
Diisopropyl ether	ug/L	108	100	100	240	239	132	131	60-140	1	
Ethylbenzene	ug/L	8.0	100	100	113	115	105	107	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	112	109	112	60-140	3	
Isopropylbenzene (Cumene)	ug/L	ND	100	100	108	109	108	109	60-140	1	
m&p-Xylene	ug/L	128	200	200	344	347	108	110	60-140	1	
Methyl-tert-butyl ether	ug/L	50.0	100	100	184	186	134	136	60-140	1	
Methylene Chloride	ug/L	ND	100	100	136	134	136	134	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: Colonial Pipeline (1/6/21)
Pace Project No.: 92515214

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	100	100	101	103	101	103	60-140	2	
n-Propylbenzene	ug/L	ND	100	100	105	107	105	107	60-140	2	
Naphthalene	ug/L	ND	100	100	101	110	94	102	60-140	8	
o-Xylene	ug/L	68.5	100	100	177	180	109	111	60-140	1	
sec-Butylbenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Styrene	ug/L	ND	100	100	106	107	106	107	60-140	1	
tert-Butylbenzene	ug/L	ND	100	100	90.4	91.4	90	91	60-140	1	
Tetrachloroethene	ug/L	ND	100	100	110	114	110	114	60-140	3	
Toluene	ug/L	96.1	100	100	229	236	133	140	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	100	100	142	139	142	139	60-140	2	M1
trans-1,3-Dichloropropene	ug/L	ND	100	100	121	126	121	126	60-140	4	
Trichloroethene	ug/L	ND	100	100	132	135	132	135	60-140	2	
Trichlorofluoromethane	ug/L	ND	100	100	126	128	126	128	60-140	2	
Vinyl chloride	ug/L	ND	100	100	124	126	124	126	60-140	2	
1,2-Dichloroethane-d4 (S)	%						97	96	70-130		
4-Bromofluorobenzene (S)	%						102	100	70-130		
Toluene-d8 (S)	%						103	105	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 (1/6/21)
Pace Project No.: 92515214

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 (1/6/21)
Pace Project No.: 92515214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515214001	**MW-69**	MADEPV	1602815	MADEP VPH	1602815
92515214001	**MW-69**	EPA 3010A	591416	EPA 6010D	591430
92515214001	**MW-69**	SM 6200B	591182		
92515214002	**Trip Blank**	SM 6200B	591182		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 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# : 92515214

92515214

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☒ Client

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 1/6/21 ID

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

Cooler Temp Corrected (°C): 2.3

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

1 tripblank vial included. Not on CoC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: NMG **Date:** 1/7/21

Project Manager SRF Review: NMG **Date:** 1/7/21

*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# : 92515214

PM: NMG Due Date: 01/13/21

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)	AGOU-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													
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, State / Location
Requested Due Date:		Project #:		Pace Profile #:	12518-3 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	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	12515214
1	MW-69	WT	G	1/6/21	0940				8			X	X						X	X	X			001
2																								002
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Ben Weisebas AECOM	1/6/21	1650	MD Pace ITV	1-6-21	1650	2.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Weisebas

SIGNATURE of SAMPLER: [signature]

DATE Signed: 1/6/21

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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

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 (1/6/21)
Pace Project No.: 92515216

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515216001	**MW-08**	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515216002	**MW-50**	MADEP VPH	BMB, GLN	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515216003	**MW-46**	MADEP VPH	BMB, JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515216004	**MW-13**	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515216005	**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 (1/6/21)
Pace Project No.: 92515216

Sample: MW-08 **Lab ID: 92515216001** Collected: 01/06/21 15:05 Received: 01/06/21 16:50 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	01/09/21 08:15	01/09/21 08:15		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 08:15	01/09/21 08:15		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 08:15	01/09/21 08:15	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 08:15	01/09/21 08:15	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.4	%	70.0-130	1	01/09/21 08:15	01/09/21 08:15	615-59-8FID	
2,5-Dibromotoluene (PID)	81.7	%	70.0-130	1	01/09/21 08:15	01/09/21 08:15	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**10.0**	ug/L	5.0	1	01/08/21 01:37	01/10/21 18:57	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 15:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 15:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 15:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 15:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 15:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 15:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 15:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 15:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 15:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 15:57	75-00-3	
Chloroform	**0.93**	ug/L	0.50	1		01/07/21 15:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 15:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 15:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 15:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 15:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 15:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 15:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 15:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 15:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 15:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 15:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 15:57	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 (1/6/21)
Pace Project No.: 92515216

Sample: MW-08 **Lab ID: 92515216001** Collected: 01/06/21 15:05 Received: 01/06/21 16:50 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		01/07/21 15:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 15:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 15:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 15:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 15:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 15:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 15:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 15:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 15:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 15:57	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 15:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 15:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 15:57	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 15:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 15:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 15:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 15:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 15:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 15:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 15:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 15:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 15:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 15:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/07/21 15:57	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/07/21 15:57	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		01/07/21 15:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

Sample: MW-50 **Lab ID: 92515216002** Collected: 01/06/21 16:00 Received: 01/06/21 16:50 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)	**25900**	ug/L	1000	10	01/10/21 09:46	01/10/21 09:46		
Aliphatic (C09-C12)	**8140**	ug/L	100	1	01/09/21 08:49	01/09/21 08:49		
Aromatic (C09-C10),Unadjusted	**1210**	ug/L	1000	10	01/10/21 09:46	01/10/21 09:46	TPHC9C10A	
Total VPH	**35300**	ug/L	1000	10	01/10/21 09:46	01/10/21 09:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	01/09/21 08:49	01/09/21 08:49	615-59-8FID	
2,5-Dibromotoluene (FID)	96.3	%	70.0-130	10	01/10/21 09:46	01/10/21 09:46	615-59-8FID	
2,5-Dibromotoluene (PID)	82.2	%	70.0-130	1	01/09/21 08:49	01/09/21 08:49	615-59-8PID	
2,5-Dibromotoluene (PID)	83.2	%	70.0-130	10	01/10/21 09:46	01/10/21 09:46	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**18.2**	ug/L	5.0	1	01/08/21 01:37	01/10/21 19:00	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**4670**	ug/L	25.0	50		01/08/21 17:02	71-43-2	
Bromobenzene	ND	ug/L	25.0	50		01/08/21 17:02	108-86-1	
Bromochloromethane	ND	ug/L	25.0	50		01/08/21 17:02	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	50		01/08/21 17:02	75-27-4	
Bromoform	ND	ug/L	25.0	50		01/08/21 17:02	75-25-2	
Bromomethane	ND	ug/L	250	50		01/08/21 17:02	74-83-9	
n-Butylbenzene	ND	ug/L	25.0	50		01/08/21 17:02	104-51-8	
sec-Butylbenzene	ND	ug/L	25.0	50		01/08/21 17:02	135-98-8	
tert-Butylbenzene	ND	ug/L	25.0	50		01/08/21 17:02	98-06-6	
Carbon tetrachloride	ND	ug/L	25.0	50		01/08/21 17:02	56-23-5	
Chlorobenzene	ND	ug/L	25.0	50		01/08/21 17:02	108-90-7	
Chloroethane	ND	ug/L	50.0	50		01/08/21 17:02	75-00-3	
Chloroform	ND	ug/L	25.0	50		01/08/21 17:02	67-66-3	
Chloromethane	ND	ug/L	50.0	50		01/08/21 17:02	74-87-3	
2-Chlorotoluene	ND	ug/L	25.0	50		01/08/21 17:02	95-49-8	
4-Chlorotoluene	ND	ug/L	25.0	50		01/08/21 17:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	50		01/08/21 17:02	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	50		01/08/21 17:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	50		01/08/21 17:02	106-93-4	
Dibromomethane	ND	ug/L	25.0	50		01/08/21 17:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	50		01/08/21 17:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	50		01/08/21 17:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	50		01/08/21 17:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	50		01/08/21 17:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	50		01/08/21 17:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	50		01/08/21 17:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	50		01/08/21 17:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	50		01/08/21 17:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	50		01/08/21 17:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	50		01/08/21 17:02	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 (1/6/21)
Pace Project No.: 92515216

Sample: MW-50 **Lab ID: 92515216002** Collected: 01/06/21 16:00 Received: 01/06/21 16:50 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	25.0	50		01/08/21 17:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	25.0	50		01/08/21 17:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	25.0	50		01/08/21 17:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	25.0	50		01/08/21 17:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	50		01/08/21 17:02	10061-02-6	
Diisopropyl ether	**587**	ug/L	25.0	50		01/08/21 17:02	108-20-3	
Ethylbenzene	**552**	ug/L	25.0	50		01/08/21 17:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	50		01/08/21 17:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	50		01/08/21 17:02	98-82-8	
Methylene Chloride	ND	ug/L	100	50		01/08/21 17:02	75-09-2	
Methyl-tert-butyl ether	**392**	ug/L	25.0	50		01/08/21 17:02	1634-04-4	
Naphthalene	**111**	ug/L	100	50		01/08/21 17:02	91-20-3	
n-Propylbenzene	ND	ug/L	25.0	50		01/08/21 17:02	103-65-1	
Styrene	ND	ug/L	25.0	50		01/08/21 17:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	50		01/08/21 17:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	50		01/08/21 17:02	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	50		01/08/21 17:02	127-18-4	
Toluene	**6590**	ug/L	25.0	50		01/08/21 17:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	50		01/08/21 17:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	50		01/08/21 17:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	50		01/08/21 17:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	50		01/08/21 17:02	79-00-5	
Trichloroethene	ND	ug/L	25.0	50		01/08/21 17:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		01/08/21 17:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	50		01/08/21 17:02	96-18-4	
1,2,4-Trimethylbenzene	**450**	ug/L	25.0	50		01/08/21 17:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	50		01/08/21 17:02	108-67-8	
Vinyl chloride	ND	ug/L	50.0	50		01/08/21 17:02	75-01-4	
m&p-Xylene	**2460**	ug/L	50.0	50		01/08/21 17:02	179601-23-1	
o-Xylene	**1230**	ug/L	25.0	50		01/08/21 17:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	50		01/08/21 17:02	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	50		01/08/21 17:02	460-00-4	
Toluene-d8 (S)	98	%	70-130	50		01/08/21 17:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

Sample: MW-46 **Lab ID: 92515216003** Collected: 01/06/21 14:50 Received: 01/06/21 16:50 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	01/10/21 08:40	01/10/21 08:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 09:22	01/09/21 09:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 09:22	01/09/21 09:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 09:22	01/09/21 09:22	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.6	%	70.0-130	1	01/09/21 09:22	01/09/21 09:22	615-59-8FID	
2,5-Dibromotoluene (FID)	98.6	%	70.0-130	1	01/10/21 08:40	01/10/21 08:40	615-59-8FID	
2,5-Dibromotoluene (PID)	76.9	%	70.0-130	1	01/09/21 09:22	01/09/21 09:22	615-59-8PID	
2,5-Dibromotoluene (PID)	84.7	%	70.0-130	1	01/10/21 08:40	01/10/21 08:40	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	01/08/21 01:37	01/10/21 19:03	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 16:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 16:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 16:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 16:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 16:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 16:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 16:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 16:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 16:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 16:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 16:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 16:15	75-00-3	
Chloroform	**5.2**	ug/L	0.50	1		01/07/21 16:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 16:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 16:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 16:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 16:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 16:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 16:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 16:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 16:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 16:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 16:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 16:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 16:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 16:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 16:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 16:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 16:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 16:15	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 (1/6/21)
Pace Project No.: 92515216

Sample: MW-46 **Lab ID: 92515216003** Collected: 01/06/21 14:50 Received: 01/06/21 16:50 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		01/07/21 16:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 16:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/07/21 16:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 16:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 16:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 16:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 16:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 16:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 16:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 16:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 16:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 16:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 16:15	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 16:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 16:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 16:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/07/21 16:15	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 16:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 16:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 16:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 16:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 16:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 16:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 16:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 16:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 16:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 16:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 16:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 16:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 16:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/07/21 16:15	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/07/21 16:15	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 16:15	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 (1/6/21)
Pace Project No.: 92515216

Sample: MW-13 **Lab ID: 92515216004** Collected: 01/06/21 16:00 Received: 01/06/21 16:50 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	01/09/21 09:55	01/09/21 09:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 09:55	01/09/21 09:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 09:55	01/09/21 09:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 09:55	01/09/21 09:55	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.6	%	70.0-130	1	01/09/21 09:55	01/09/21 09:55	615-59-8FID	
2,5-Dibromotoluene (PID)	76.8	%	70.0-130	1	01/09/21 09:55	01/09/21 09:55	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	01/08/21 01:37	01/10/21 19:06	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/07/21 16:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 16:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 16:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 16:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 16:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 16:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 16:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 16:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 16:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 16:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 16:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 16:33	75-00-3	
Chloroform	**4.6**	ug/L	0.50	1		01/07/21 16:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 16:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 16:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 16:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 16:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 16:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 16:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 16:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 16:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 16:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 16:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 16:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 16:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 16:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 16:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 16:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 16:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 16:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 16:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 16:33	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

Sample: MW-13 **Lab ID: 92515216004** Collected: 01/06/21 16:00 Received: 01/06/21 16:50 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		01/07/21 16:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 16:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 16:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 16:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 16:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 16:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 16:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 16:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 16:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 16:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 16:33	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 16:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 16:33	79-34-5	
Tetrachloroethene	**0.85**	ug/L	0.50	1		01/07/21 16:33	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 16:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 16:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 16:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 16:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 16:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 16:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 16:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 16:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 16:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 16:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 16:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 16:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 16:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		01/07/21 16:33	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/07/21 16:33	460-00-4	
Toluene-d8 (S)	105	%	70-130	1		01/07/21 16:33	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 (1/6/21)
Pace Project No.: 92515216

Sample: Trip Blank **Lab ID: 92515216005** Collected: 01/06/21 00:00 Received: 01/06/21 16:50 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		01/07/21 12:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/07/21 12:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/07/21 12:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/07/21 12:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/07/21 12:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/21 12:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/07/21 12:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/07/21 12:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/07/21 12:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/21 12:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/07/21 12:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/21 12:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/07/21 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/07/21 12:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/07/21 12:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/07/21 12:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/07/21 12:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/07/21 12:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/07/21 12:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/07/21 12:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/07/21 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/07/21 12:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/07/21 12:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/07/21 12:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/07/21 12:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/07/21 12:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/07/21 12:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/07/21 12:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/07/21 12:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/07/21 12:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/07/21 12:39	103-65-1	
Styrene	ND	ug/L	0.50	1		01/07/21 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/07/21 12:39	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 (1/6/21)
Pace Project No.: 92515216

Sample: Trip Blank **Lab ID: 92515216005** Collected: 01/06/21 00:00 Received: 01/06/21 16:50 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		01/07/21 12:39	127-18-4	
Toluene	ND	ug/L	0.50	1		01/07/21 12:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/07/21 12:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/07/21 12:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/07/21 12:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/21 12:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/07/21 12:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/07/21 12:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/21 12:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/07/21 12:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/07/21 12:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/07/21 12:39	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/07/21 12:39	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/07/21 12:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

QC Batch: 1602815 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515216001, 92515216002, 92515216003, 92515216004

METHOD BLANK: R3611153-3 Matrix: Water
Associated Lab Samples: 92515216001, 92515216002, 92515216003, 92515216004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 05:28	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 05:28	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 05:28	
Total VPH	ug/L	ND	100	01/09/21 05:28	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/09/21 05:28	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 05:28	

LABORATORY CONTROL SAMPLE & LCSD: R3611153-1 R3611153-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1090	1080	90.8	90.0	70.0-130	0.922	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1550	114	111	70.0-130	2.55	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	200	197	100	98.5	70.0-130	1.51	25	
Total VPH	ug/L	2800	2880	2830	103	101	70.0-130	1.75	25	
2,5-Dibromotoluene (FID)	%				95.5	94.9	70.0-130			
2,5-Dibromotoluene (PID)	%				85.1	85.8	70.0-130			

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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 (1/6/21)
Pace Project No.: 92515216

QC Batch: 1603302
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515216002, 92515216003

METHOD BLANK: R3611201-3 Matrix: Water
Associated Lab Samples: 92515216002, 92515216003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 20:50	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 20:50	
Total VPH	ug/L	ND	100	01/09/21 20:50	
2,5-Dibromotoluene (FID)	%	88.2	70.0-130	01/09/21 20:50	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 20:50	

LABORATORY CONTROL SAMPLE & LCSD: R3611201-1 R3611201-2

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	1030	86.7	85.8	70.0-130	0.966	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	184	93.0	92.0	70.0-130	1.08	25	
Total VPH	ug/L	2800	2720	2660	97.1	95.0	70.0-130	2.23	25	
2,5-Dibromotoluene (FID)	%				96.7	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.2	85.0	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

QC Batch: 591416 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515216001, 92515216002, 92515216003, 92515216004

METHOD BLANK: 3122333 Matrix: Water
Associated Lab Samples: 92515216001, 92515216002, 92515216003, 92515216004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/10/21 17:30	

LABORATORY CONTROL SAMPLE: 3122334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	481	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122335 3122336

Parameter	Units	92514178001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	460	466	92	93	75-125	1	

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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 (1/6/21)
Pace Project No.: 92515216

QC Batch: 591182
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515216001, 92515216003, 92515216004, 92515216005

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515216001, 92515216003, 92515216004, 92515216005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
1,1-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/07/21 10:15	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloroethane	ug/L	ND	0.50	01/07/21 10:15	
1,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
1,3-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
2,2-Dichloropropane	ug/L	ND	0.50	01/07/21 10:15	
2-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
4-Chlorotoluene	ug/L	ND	0.50	01/07/21 10:15	
Benzene	ug/L	ND	0.50	01/07/21 10:15	
Bromobenzene	ug/L	ND	0.50	01/07/21 10:15	
Bromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromodichloromethane	ug/L	ND	0.50	01/07/21 10:15	
Bromoform	ug/L	ND	0.50	01/07/21 10:15	
Bromomethane	ug/L	ND	5.0	01/07/21 10:15	
Carbon tetrachloride	ug/L	ND	0.50	01/07/21 10:15	
Chlorobenzene	ug/L	ND	0.50	01/07/21 10:15	
Chloroethane	ug/L	ND	1.0	01/07/21 10:15	
Chloroform	ug/L	ND	0.50	01/07/21 10:15	
Chloromethane	ug/L	ND	1.0	01/07/21 10:15	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Dibromochloromethane	ug/L	ND	0.50	01/07/21 10:15	
Dibromomethane	ug/L	ND	0.50	01/07/21 10:15	
Dichlorodifluoromethane	ug/L	ND	0.50	01/07/21 10:15	
Diisopropyl ether	ug/L	ND	0.50	01/07/21 10:15	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

METHOD BLANK: 3120948 Matrix: Water
Associated Lab Samples: 92515216001, 92515216003, 92515216004, 92515216005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/07/21 10:15	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/07/21 10:15	
m&p-Xylene	ug/L	ND	1.0	01/07/21 10:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/07/21 10:15	
Methylene Chloride	ug/L	ND	2.0	01/07/21 10:15	
n-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
n-Propylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Naphthalene	ug/L	ND	2.0	01/07/21 10:15	
o-Xylene	ug/L	ND	0.50	01/07/21 10:15	
sec-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Styrene	ug/L	ND	0.50	01/07/21 10:15	
tert-Butylbenzene	ug/L	ND	0.50	01/07/21 10:15	
Tetrachloroethene	ug/L	ND	0.50	01/07/21 10:15	
Toluene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/07/21 10:15	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/07/21 10:15	
Trichloroethene	ug/L	ND	0.50	01/07/21 10:15	
Trichlorofluoromethane	ug/L	ND	1.0	01/07/21 10:15	
Vinyl chloride	ug/L	ND	1.0	01/07/21 10:15	
1,2-Dichloroethane-d4 (S)	%	96	70-130	01/07/21 10:15	
4-Bromofluorobenzene (S)	%	98	70-130	01/07/21 10:15	
Toluene-d8 (S)	%	104	70-130	01/07/21 10:15	

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,1-Trichloroethane	ug/L	50	60.3	121	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	60.0	120	60-140	
1,1-Dichloroethane	ug/L	50	62.9	126	60-140	
1,1-Dichloroethene	ug/L	50	59.6	119	60-140	
1,1-Dichloropropene	ug/L	50	62.3	125	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.6	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.9	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	60-140	
1,2-Dichlorobenzene	ug/L	50	49.9	100	60-140	
1,2-Dichloroethane	ug/L	50	51.8	104	60-140	
1,2-Dichloropropane	ug/L	50	58.8	118	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	60-140	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

LABORATORY CONTROL SAMPLE: 3120949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.5	99	60-140	
1,3-Dichloropropane	ug/L	50	49.9	100	60-140	
1,4-Dichlorobenzene	ug/L	50	48.4	97	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	48.7	97	60-140	
4-Chlorotoluene	ug/L	50	47.3	95	60-140	
Benzene	ug/L	50	58.0	116	60-140	
Bromobenzene	ug/L	50	48.6	97	60-140	
Bromochloromethane	ug/L	50	66.5	133	60-140	
Bromodichloromethane	ug/L	50	54.9	110	60-140	
Bromoform	ug/L	50	51.5	103	60-140	
Bromomethane	ug/L	50	54.2	108	60-140	
Carbon tetrachloride	ug/L	50	52.7	105	60-140	
Chlorobenzene	ug/L	50	49.7	99	60-140	
Chloroethane	ug/L	50	36.0	72	60-140	
Chloroform	ug/L	50	59.5	119	60-140	
Chloromethane	ug/L	50	54.4	109	60-140	
cis-1,2-Dichloroethene	ug/L	50	58.1	116	60-140	
cis-1,3-Dichloropropene	ug/L	50	60.5	121	60-140	
Dibromochloromethane	ug/L	50	50.9	102	60-140	
Dibromomethane	ug/L	50	61.3	123	60-140	
Dichlorodifluoromethane	ug/L	50	51.6	103	60-140	
Diisopropyl ether	ug/L	50	56.1	112	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	50.6	101	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.8	98	60-140	
m&p-Xylene	ug/L	100	96.4	96	60-140	
Methyl-tert-butyl ether	ug/L	50	59.4	119	60-140	
Methylene Chloride	ug/L	50	59.8	120	60-140	
n-Butylbenzene	ug/L	50	47.3	95	60-140	
n-Propylbenzene	ug/L	50	46.7	93	60-140	
Naphthalene	ug/L	50	51.6	103	60-140	
o-Xylene	ug/L	50	49.9	100	60-140	
sec-Butylbenzene	ug/L	50	46.8	94	60-140	
Styrene	ug/L	50	50.3	101	60-140	
tert-Butylbenzene	ug/L	50	39.6	79	60-140	
Tetrachloroethene	ug/L	50	50.1	100	60-140	
Toluene	ug/L	50	57.8	116	60-140	
trans-1,2-Dichloroethene	ug/L	50	61.8	124	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Trichloroethene	ug/L	50	58.2	116	60-140	
Trichlorofluoromethane	ug/L	50	50.3	101	60-140	
Vinyl chloride	ug/L	50	56.6	113	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

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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 (1/6/21)
Pace Project No.: 92515216

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 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	100	100	106	107	106	107	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	100	100	135	133	135	133	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	103	105	103	105	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	100	100	127	133	127	133	60-140	5	
1,1-Dichloroethane	ug/L	ND	100	100	140	141	140	141	60-140	1	M1
1,1-Dichloroethene	ug/L	ND	100	100	140	139	140	139	60-140	0	
1,1-Dichloropropene	ug/L	ND	100	100	143	146	143	146	60-140	2	M1
1,2,3-Trichlorobenzene	ug/L	ND	100	100	96.4	102	96	102	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	100	100	103	100	103	100	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	98.0	105	98	105	60-140	7	
1,2,4-Trimethylbenzene	ug/L	28.9	100	100	135	137	106	108	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	107	113	107	113	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	108	109	108	109	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	100	100	104	106	104	106	60-140	2	
1,2-Dichloroethane	ug/L	ND	100	100	113	113	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	100	100	130	134	130	134	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	100	100	116	117	116	117	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	100	100	103	105	103	105	60-140	3	
1,3-Dichloropropane	ug/L	ND	100	100	107	109	107	109	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	100	100	102	102	102	102	60-140	1	
2,2-Dichloropropane	ug/L	ND	100	100	123	121	123	121	60-140	2	
2-Chlorotoluene	ug/L	ND	100	100	107	109	107	109	60-140	2	
4-Chlorotoluene	ug/L	ND	100	100	101	102	101	102	60-140	1	
Benzene	ug/L	726	100	100	886	911	160	185	60-140	3	M1
Bromobenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Bromochloromethane	ug/L	ND	100	100	147	148	147	148	60-140	1	M1
Bromodichloromethane	ug/L	ND	100	100	117	122	117	122	60-140	4	
Bromoform	ug/L	ND	100	100	105	106	105	106	60-140	1	
Bromomethane	ug/L	ND	100	100	111	126	111	126	60-140	13	
Carbon tetrachloride	ug/L	ND	100	100	121	124	121	124	60-140	2	
Chlorobenzene	ug/L	ND	100	100	107	109	107	109	60-140	2	
Chloroethane	ug/L	ND	100	100	111	106	111	106	60-140	5	
Chloroform	ug/L	ND	100	100	137	135	135	134	60-140	1	
Chloromethane	ug/L	ND	100	100	122	123	122	123	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	100	100	132	133	132	133	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	100	100	129	131	129	131	60-140	2	
Dibromochloromethane	ug/L	ND	100	100	107	106	107	106	60-140	1	
Dibromomethane	ug/L	ND	100	100	136	139	136	139	60-140	2	
Dichlorodifluoromethane	ug/L	ND	100	100	109	109	109	109	60-140	0	
Diisopropyl ether	ug/L	108	100	100	240	239	132	131	60-140	1	
Ethylbenzene	ug/L	8.0	100	100	113	115	105	107	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	109	112	109	112	60-140	3	
Isopropylbenzene (Cumene)	ug/L	ND	100	100	108	109	108	109	60-140	1	
m&p-Xylene	ug/L	128	200	200	344	347	108	110	60-140	1	
Methyl-tert-butyl ether	ug/L	50.0	100	100	184	186	134	136	60-140	1	
Methylene Chloride	ug/L	ND	100	100	136	134	136	134	60-140	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120950 3120951

Parameter	Units	92515075004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	100	100	101	103	101	103	60-140	2	
n-Propylbenzene	ug/L	ND	100	100	105	107	105	107	60-140	2	
Naphthalene	ug/L	ND	100	100	101	110	94	102	60-140	8	
o-Xylene	ug/L	68.5	100	100	177	180	109	111	60-140	1	
sec-Butylbenzene	ug/L	ND	100	100	107	108	107	108	60-140	1	
Styrene	ug/L	ND	100	100	106	107	106	107	60-140	1	
tert-Butylbenzene	ug/L	ND	100	100	90.4	91.4	90	91	60-140	1	
Tetrachloroethene	ug/L	ND	100	100	110	114	110	114	60-140	3	
Toluene	ug/L	96.1	100	100	229	236	133	140	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	100	100	142	139	142	139	60-140	2	M1
trans-1,3-Dichloropropene	ug/L	ND	100	100	121	126	121	126	60-140	4	
Trichloroethene	ug/L	ND	100	100	132	135	132	135	60-140	2	
Trichlorofluoromethane	ug/L	ND	100	100	126	128	126	128	60-140	2	
Vinyl chloride	ug/L	ND	100	100	124	126	124	126	60-140	2	
1,2-Dichloroethane-d4 (S)	%						97	96	70-130		
4-Bromofluorobenzene (S)	%						102	100	70-130		
Toluene-d8 (S)	%						103	105	70-130		

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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 (1/6/21)
Pace Project No.: 92515216

QC Batch: 591510
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515216002

METHOD BLANK: 3122699 Matrix: Water
Associated Lab Samples: 92515216002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/08/21 12:00	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/08/21 12:00	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/08/21 12:00	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
1,3-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
2,2-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
2-Chlorotoluene	ug/L	ND	0.50	01/08/21 12:00	
4-Chlorotoluene	ug/L	ND	0.50	01/08/21 12:00	
Benzene	ug/L	ND	0.50	01/08/21 12:00	
Bromobenzene	ug/L	ND	0.50	01/08/21 12:00	
Bromochloromethane	ug/L	ND	0.50	01/08/21 12:00	
Bromodichloromethane	ug/L	ND	0.50	01/08/21 12:00	
Bromoform	ug/L	ND	0.50	01/08/21 12:00	
Bromomethane	ug/L	ND	5.0	01/08/21 12:00	
Carbon tetrachloride	ug/L	ND	0.50	01/08/21 12:00	
Chlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
Chloroethane	ug/L	ND	1.0	01/08/21 12:00	
Chloroform	ug/L	ND	0.50	01/08/21 12:00	
Chloromethane	ug/L	ND	1.0	01/08/21 12:00	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
Dibromochloromethane	ug/L	ND	0.50	01/08/21 12:00	
Dibromomethane	ug/L	ND	0.50	01/08/21 12:00	
Dichlorodifluoromethane	ug/L	ND	0.50	01/08/21 12:00	
Diisopropyl ether	ug/L	ND	0.50	01/08/21 12:00	

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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 (1/6/21)
Pace Project No.: 92515216

METHOD BLANK: 3122699 Matrix: Water
Associated Lab Samples: 92515216002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/08/21 12:00	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/08/21 12:00	
m&p-Xylene	ug/L	ND	1.0	01/08/21 12:00	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/08/21 12:00	
Methylene Chloride	ug/L	ND	2.0	01/08/21 12:00	
n-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
n-Propylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Naphthalene	ug/L	ND	2.0	01/08/21 12:00	
o-Xylene	ug/L	ND	0.50	01/08/21 12:00	
sec-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Styrene	ug/L	ND	0.50	01/08/21 12:00	
tert-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Tetrachloroethene	ug/L	ND	0.50	01/08/21 12:00	
Toluene	ug/L	ND	0.50	01/08/21 12:00	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
Trichloroethene	ug/L	ND	0.50	01/08/21 12:00	
Trichlorofluoromethane	ug/L	ND	1.0	01/08/21 12:00	
Vinyl chloride	ug/L	ND	1.0	01/08/21 12:00	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/08/21 12:00	
4-Bromofluorobenzene (S)	%	102	70-130	01/08/21 12:00	
Toluene-d8 (S)	%	98	70-130	01/08/21 12:00	

LABORATORY CONTROL SAMPLE: 3122700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	46.6	93	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethane	ug/L	50	46.0	92	60-140	
1,1-Dichloroethene	ug/L	50	46.4	93	60-140	
1,1-Dichloropropene	ug/L	50	47.1	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.5	97	60-140	
1,2,3-Trichloropropane	ug/L	50	50.0	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.9	96	60-140	
1,2-Dichloroethane	ug/L	50	46.5	93	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.7	99	60-140	

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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 (1/6/21)
Pace Project No.: 92515216

LABORATORY CONTROL SAMPLE: 3122700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.9	96	60-140	
2,2-Dichloropropane	ug/L	50	46.4	93	60-140	
2-Chlorotoluene	ug/L	50	48.4	97	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	45.6	91	60-140	
Bromobenzene	ug/L	50	48.0	96	60-140	
Bromochloromethane	ug/L	50	47.1	94	60-140	
Bromodichloromethane	ug/L	50	47.0	94	60-140	
Bromoform	ug/L	50	53.6	107	60-140	
Bromomethane	ug/L	50	41.2	82	60-140	
Carbon tetrachloride	ug/L	50	48.5	97	60-140	
Chlorobenzene	ug/L	50	49.9	100	60-140	
Chloroethane	ug/L	50	36.7	73	60-140	
Chloroform	ug/L	50	45.5	91	60-140	
Chloromethane	ug/L	50	36.0	72	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.4	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	48.3	97	60-140	
Dichlorodifluoromethane	ug/L	50	33.0	66	60-140	
Diisopropyl ether	ug/L	50	48.0	96	60-140	
Ethylbenzene	ug/L	50	48.1	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	60-140	
m&p-Xylene	ug/L	100	95.5	95	60-140	
Methyl-tert-butyl ether	ug/L	50	49.6	99	60-140	
Methylene Chloride	ug/L	50	42.3	85	60-140	
n-Butylbenzene	ug/L	50	51.1	102	60-140	
n-Propylbenzene	ug/L	50	48.3	97	60-140	
Naphthalene	ug/L	50	50.8	102	60-140	
o-Xylene	ug/L	50	49.4	99	60-140	
sec-Butylbenzene	ug/L	50	48.7	97	60-140	
Styrene	ug/L	50	50.1	100	60-140	
tert-Butylbenzene	ug/L	50	40.4	81	60-140	
Tetrachloroethene	ug/L	50	47.7	95	60-140	
Toluene	ug/L	50	46.6	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	60-140	
Trichloroethene	ug/L	50	47.4	95	60-140	
Trichlorofluoromethane	ug/L	50	39.0	78	60-140	
Vinyl chloride	ug/L	50	35.7	71	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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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 (1/6/21)
Pace Project No.: 92515216

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122701 3122702

Parameter	Units	92515014004 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	200	200	224	238	112	119	60-140	6	
1,1,1-Trichloroethane	ug/L	ND	200	200	231	237	115	118	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	203	213	101	107	60-140	5	
1,1,2-Trichloroethane	ug/L	ND	200	200	222	219	111	110	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	227	233	113	117	60-140	3	
1,1-Dichloroethene	ug/L	ND	200	200	243	243	121	121	60-140	0	
1,1-Dichloropropene	ug/L	ND	200	200	234	238	117	119	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	194	210	97	105	60-140	8	
1,2,3-Trichloropropane	ug/L	ND	200	200	202	215	101	107	60-140	6	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,2,4-Trimethylbenzene	ug/L	73.5	200	200	302	302	114	114	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	201	207	100	103	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	205	218	103	109	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	217	214	108	107	60-140	2	
1,2-Dichloroethane	ug/L	ND	200	200	217	220	108	110	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	224	224	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	239	239	120	119	60-140	0	
1,3-Dichlorobenzene	ug/L	ND	200	200	213	215	106	107	60-140	1	
1,3-Dichloropropane	ug/L	ND	200	200	219	227	109	114	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	200	200	210	211	105	106	60-140	1	
2,2-Dichloropropane	ug/L	ND	200	200	230	231	115	115	60-140	0	
2-Chlorotoluene	ug/L	ND	200	200	216	220	108	110	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	218	216	109	108	60-140	1	
Benzene	ug/L	291	200	200	512	526	111	118	60-140	3	
Bromobenzene	ug/L	ND	200	200	212	212	106	106	60-140	0	
Bromochloromethane	ug/L	ND	200	200	229	229	114	115	60-140	0	
Bromodichloromethane	ug/L	ND	200	200	216	221	108	110	60-140	2	
Bromoform	ug/L	ND	200	200	215	220	108	110	60-140	2	
Bromomethane	ug/L	ND	200	200	149	189	74	95	60-140	24	
Carbon tetrachloride	ug/L	ND	200	200	233	242	117	121	60-140	4	
Chlorobenzene	ug/L	ND	200	200	218	229	109	114	60-140	5	
Chloroethane	ug/L	ND	200	200	225	201	113	101	60-140	11	
Chloroform	ug/L	ND	200	200	222	219	111	109	60-140	1	
Chloromethane	ug/L	ND	200	200	169	184	85	92	60-140	9	
cis-1,2-Dichloroethene	ug/L	ND	200	200	218	221	109	110	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	223	226	112	113	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	226	229	113	115	60-140	1	
Dibromomethane	ug/L	ND	200	200	223	236	112	118	60-140	5	
Dichlorodifluoromethane	ug/L	ND	200	200	170	167	85	83	60-140	2	
Diisopropyl ether	ug/L	ND	200	200	219	225	110	113	60-140	3	
Ethylbenzene	ug/L	88.6	200	200	300	311	106	111	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	209	227	105	113	60-140	8	
Isopropylbenzene (Cumene)	ug/L	5.4	200	200	222	232	108	113	60-140	4	
m&p-Xylene	ug/L	313	400	400	728	760	104	112	60-140	4	
Methyl-tert-butyl ether	ug/L	ND	200	200	231	239	116	119	60-140	3	
Methylene Chloride	ug/L	ND	200	200	211	209	106	105	60-140	1	

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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 (1/6/21)
Pace Project No.: 92515216

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122701 3122702

Parameter	Units	92515014004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	223	230	109	112	60-140	3	
n-Propylbenzene	ug/L	ND	200	200	226	234	113	117	60-140	4	
Naphthalene	ug/L	ND	200	200	219	227	102	106	60-140	4	
o-Xylene	ug/L	155	200	200	365	378	105	112	60-140	4	
sec-Butylbenzene	ug/L	ND	200	200	220	223	110	111	60-140	1	
Styrene	ug/L	ND	200	200	217	221	108	111	60-140	2	
tert-Butylbenzene	ug/L	ND	200	200	187	184	93	92	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	213	217	106	109	60-140	2	
Toluene	ug/L	961	200	200	1140	1180	90	110	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	200	200	226	231	113	115	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	200	200	229	232	114	116	60-140	1	
Trichloroethene	ug/L	ND	200	200	229	231	115	116	60-140	1	
Trichlorofluoromethane	ug/L	ND	200	200	203	201	102	100	60-140	1	
Vinyl chloride	ug/L	ND	200	200	186	187	93	93	60-140	0	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						99	101	70-130		
Toluene-d8 (S)	%						96	97	70-130		

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Colonial Pipeline (1/6/21)
Pace Project No.: 92515216

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 (1/6/21)
Pace Project No.: 92515216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515216001	**MW-08**	MADEPV	1602815	MADEP VPH	1602815
92515216002	**MW-50**	MADEPV	1602815	MADEP VPH	1602815
92515216002	**MW-50**	MADEPV	1603302	MADEP VPH	1603302
92515216003	**MW-46**	MADEPV	1602815	MADEP VPH	1602815
92515216003	**MW-46**	MADEPV	1603302	MADEP VPH	1603302
92515216004	**MW-13**	MADEPV	1602815	MADEP VPH	1602815
92515216001	**MW-08**	EPA 3010A	591416	EPA 6010D	591430
92515216002	**MW-50**	EPA 3010A	591416	EPA 6010D	591430
92515216003	**MW-46**	EPA 3010A	591416	EPA 6010D	591430
92515216004	**MW-13**	EPA 3010A	591416	EPA 6010D	591430
92515216001	**MW-08**	SM 6200B	591182		
92515216002	**MW-50**	SM 6200B	591510		
92515216003	**MW-46**	SM 6200B	591182		
92515216004	**MW-13**	SM 6200B	591182		
92515216005	**Trip Blank**	SM 6200B	591182		

Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 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# : 92515216

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: VS 11/6/21

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

Cooler Temp Corrected (°C): 2.3

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#: 92515216

PM: NMG Due Date: 01/13/21

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										6 vs 1/6													
2						1										6													
3						1										6													
4						1										6													
5																1													
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

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

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	6200	VPH	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	92515216
1	MW-08	WT	G	1/6/21	1505				8			X	X						X	X	X			001
2	MW-50	WT	G	1/6/21	1600				8			X	X						X	X	X			002
3	MW-46	WT	G	1/6/21	1450				8			X	X						X	X	X			003
4	MW-13	WT	G	1/6/21	1600				8			X	X						X	X	X			004
5	Trip Blank								2	LAB Provided												X		005
6	~~MW-69~~ ETR	~~WT~~	~~G~~	~~1/6/21~~	~~0940~~ ETR				~~8~~			~~X~~	~~X~~	ETR					~~X~~	~~X~~	~~X~~ ETR			
7																								
8																								
9																								
10																								
11																								
12																								

Requested Analysis Filtered (Y/N)

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)
	Ben Weisels AECOM	1/6/20	1650	MDC Pace HW	1-6-21	16:50	2.3	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ben Weisels
SIGNATURE of SAMPLER: [signature]
DATE Signed: 1/6/21

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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515354

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515354

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 (1/7/21)
Pace Project No.: 92515354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515354001	**MW-64**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515354002	**MW-65**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515354003	**MW-70**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515354004	**Dup-1-20210107**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515354005	**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 (1/7/21)
Pace Project No.: 92515354

Sample: MW-64 **Lab ID: 92515354001** Collected: 01/07/21 09:14 Received: 01/07/21 13:22 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	01/09/21 12:42	01/09/21 12:42		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 12:42	01/09/21 12:42		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 12:42	01/09/21 12:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 12:42	01/09/21 12:42	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.5	%	70.0-130	1	01/09/21 12:42	01/09/21 12:42	615-59-8FID	
2,5-Dibromotoluene (PID)	81.6	%	70.0-130	1	01/09/21 12:42	01/09/21 12:42	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**101**	ug/L	5.0	1	01/08/21 01:37	01/09/21 19:41	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 19:06	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 19:06	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 19:06	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 19:06	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 19:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 19:06	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:06	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:06	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:06	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 19:06	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 19:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 19:06	75-00-3	
Chloroform	**1.5**	ug/L	0.50	1		01/08/21 19:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 19:06	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 19:06	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 19:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 19:06	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 19:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 19:06	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 19:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 19:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 19:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:06	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 (1/7/21)
Pace Project No.: 92515354

Sample: MW-64 **Lab ID: 92515354001** Collected: 01/07/21 09:14 Received: 01/07/21 13:22 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		01/08/21 19:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 19:06	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 19:06	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 19:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 19:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 19:06	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 19:06	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 19:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 19:06	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 19:06	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 19:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 19:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 19:06	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 19:06	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 19:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 19:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 19:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 19:06	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 19:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 19:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 19:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 19:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 19:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 19:06	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 19:06	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 19:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/08/21 19:06	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/08/21 19:06	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/08/21 19:06	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 (1/7/21)
Pace Project No.: 92515354

Sample: MW-65 **Lab ID: 92515354002** Collected: 01/07/21 09:50 Received: 01/07/21 13:22 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	01/09/21 13:15	01/09/21 13:15		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 13:15	01/09/21 13:15		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 13:15	01/09/21 13:15	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 13:15	01/09/21 13:15	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.4	%	70.0-130	1	01/09/21 13:15	01/09/21 13:15	615-59-8FID	
2,5-Dibromotoluene (PID)	86.8	%	70.0-130	1	01/09/21 13:15	01/09/21 13:15	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**264**	ug/L	5.0	1	01/08/21 01:37	01/09/21 19:44	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 19:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 19:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 19:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 19:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 19:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 19:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 19:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 19:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 19:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/08/21 19:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 19:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 19:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 19:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 19:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 19:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 19:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:24	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 (1/7/21)
Pace Project No.: 92515354

Sample: MW-65 **Lab ID: 92515354002** Collected: 01/07/21 09:50 Received: 01/07/21 13:22 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		01/08/21 19:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 19:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 19:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 19:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 19:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 19:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 19:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 19:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 19:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 19:24	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 19:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 19:24	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 19:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 19:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 19:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 19:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 19:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 19:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 19:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 19:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 19:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 19:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/08/21 19:24	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/08/21 19:24	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 19:24	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 (1/7/21)
Pace Project No.: 92515354

Sample: MW-70 **Lab ID: 92515354003** Collected: 01/07/21 10:12 Received: 01/07/21 13:22 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	01/09/21 13:48	01/09/21 13:48		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 13:48	01/09/21 13:48		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 13:48	01/09/21 13:48	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 13:48	01/09/21 13:48	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.9	%	70.0-130	1	01/09/21 13:48	01/09/21 13:48	615-59-8FID	
2,5-Dibromotoluene (PID)	83.6	%	70.0-130	1	01/09/21 13:48	01/09/21 13:48	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**155**	ug/L	5.0	1	01/08/21 01:37	01/09/21 19:48	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 19:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 19:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 19:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 19:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 19:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 19:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 19:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 19:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 19:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 19:42	75-00-3	
Chloroform	**1.4**	ug/L	0.50	1		01/08/21 19:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 19:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 19:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 19:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 19:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 19:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 19:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 19:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 19:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 19:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 19:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 19:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 19:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 19:42	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 (1/7/21)
Pace Project No.: 92515354

Sample: MW-70 **Lab ID: 92515354003** Collected: 01/07/21 10:12 Received: 01/07/21 13:22 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		01/08/21 19:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 19:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 19:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 19:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 19:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 19:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 19:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 19:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 19:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 19:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 19:42	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 19:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 19:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 19:42	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 19:42	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 19:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 19:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 19:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 19:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 19:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 19:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 19:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 19:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 19:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 19:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 19:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 19:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 19:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/08/21 19:42	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/08/21 19:42	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 19:42	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 (1/7/21)
Pace Project No.: 92515354

Sample: Dup-1-20210107 **Lab ID: 92515354004** Collected: 01/07/21 00:00 Received: 01/07/21 13:22 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	01/09/21 14:43	01/09/21 14:43		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 14:43	01/09/21 14:43		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 14:43	01/09/21 14:43	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 14:43	01/09/21 14:43	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/09/21 14:43	01/09/21 14:43	615-59-8FID	
2,5-Dibromotoluene (PID)	89.0	%	70.0-130	1	01/09/21 14:43	01/09/21 14:43	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**94.8**	ug/L	5.0	1	01/08/21 01:37	01/09/21 19:52	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 20:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 20:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 20:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 20:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 20:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 20:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 20:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 20:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 20:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 20:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 20:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 20:00	75-00-3	
Chloroform	**1.7**	ug/L	0.50	1		01/08/21 20:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 20:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 20:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 20:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 20:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 20:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 20:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 20:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 20:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 20:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 20:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 20:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 20:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 20:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 20:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 20:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 20:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 20:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 20:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 20:00	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 (1/7/21)
Pace Project No.: 92515354

Sample: Dup-1-20210107 **Lab ID: 92515354004** Collected: 01/07/21 00:00 Received: 01/07/21 13:22 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		01/08/21 20:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 20:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 20:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 20:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 20:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 20:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 20:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 20:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 20:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 20:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 20:00	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 20:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 20:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 20:00	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 20:00	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 20:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 20:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 20:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 20:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 20:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 20:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 20:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 20:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 20:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 20:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 20:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 20:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 20:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/08/21 20:00	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		01/08/21 20:00	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/08/21 20:00	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 (1/7/21)
Pace Project No.: 92515354

Sample: Trip Blank **Lab ID: 92515354005** Collected: 01/07/21 00:00 Received: 01/07/21 13:22 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		01/08/21 15:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 15:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 15:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 15:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 15:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 15:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 15:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 15:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 15:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 15:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 15:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 15:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/08/21 15:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 15:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 15:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 15:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 15:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 15:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 15:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 15:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 15:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 15:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 15:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 15:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 15:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 15:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 15:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 15:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/08/21 15:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 15:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 15:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 15:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 15:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 15:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 15:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 15:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 15:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 15:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 15:15	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 15:15	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 (1/7/21)
Pace Project No.: 92515354

Sample: Trip Blank **Lab ID: 92515354005** Collected: 01/07/21 00:00 Received: 01/07/21 13:22 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		01/08/21 15:15	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 15:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 15:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 15:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 15:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 15:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 15:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 15:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 15:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 15:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 15:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 15:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 15:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/08/21 15:15	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		01/08/21 15:15	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 15:15	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 (1/7/21)
Pace Project No.: 92515354

QC Batch: 1602815 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515354001, 92515354002, 92515354003, 92515354004

METHOD BLANK: R3611153-3 Matrix: Water
Associated Lab Samples: 92515354001, 92515354002, 92515354003, 92515354004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 05:28	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 05:28	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 05:28	
Total VPH	ug/L	ND	100	01/09/21 05:28	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/09/21 05:28	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 05:28	

LABORATORY CONTROL SAMPLE & LCSD: R3611153-1 R3611153-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1090	1080	90.8	90.0	70.0-130	0.922	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1550	114	111	70.0-130	2.55	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	200	197	100	98.5	70.0-130	1.51	25	
Total VPH	ug/L	2800	2880	2830	103	101	70.0-130	1.75	25	
2,5-Dibromotoluene (FID)	%				95.5	94.9	70.0-130			
2,5-Dibromotoluene (PID)	%				85.1	85.8	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515354

QC Batch: 591415 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515354001, 92515354002, 92515354003, 92515354004

METHOD BLANK: 3122329 Matrix: Water
Associated Lab Samples: 92515354001, 92515354002, 92515354003, 92515354004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/09/21 18:14	

LABORATORY CONTROL SAMPLE: 3122330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	475	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122331 3122332

Parameter	Units	92515170002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	13.0	500	500	474	478	92	93	75-125	1	

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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 (1/7/21)
Pace Project No.: 92515354

QC Batch: 591510 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515354001, 92515354002, 92515354003, 92515354004, 92515354005

METHOD BLANK: 3122699 Matrix: Water

Associated Lab Samples: 92515354001, 92515354002, 92515354003, 92515354004, 92515354005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/08/21 12:00	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/08/21 12:00	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/08/21 12:00	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
1,3-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
2,2-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
2-Chlorotoluene	ug/L	ND	0.50	01/08/21 12:00	
4-Chlorotoluene	ug/L	ND	0.50	01/08/21 12:00	
Benzene	ug/L	ND	0.50	01/08/21 12:00	
Bromobenzene	ug/L	ND	0.50	01/08/21 12:00	
Bromochloromethane	ug/L	ND	0.50	01/08/21 12:00	
Bromodichloromethane	ug/L	ND	0.50	01/08/21 12:00	
Bromoform	ug/L	ND	0.50	01/08/21 12:00	
Bromomethane	ug/L	ND	5.0	01/08/21 12:00	
Carbon tetrachloride	ug/L	ND	0.50	01/08/21 12:00	
Chlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
Chloroethane	ug/L	ND	1.0	01/08/21 12:00	
Chloroform	ug/L	ND	0.50	01/08/21 12:00	
Chloromethane	ug/L	ND	1.0	01/08/21 12:00	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
Dibromochloromethane	ug/L	ND	0.50	01/08/21 12:00	
Dibromomethane	ug/L	ND	0.50	01/08/21 12:00	
Dichlorodifluoromethane	ug/L	ND	0.50	01/08/21 12:00	
Diisopropyl ether	ug/L	ND	0.50	01/08/21 12:00	

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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 (1/7/21)
Pace Project No.: 92515354

METHOD BLANK: 3122699 Matrix: Water
Associated Lab Samples: 92515354001, 92515354002, 92515354003, 92515354004, 92515354005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/08/21 12:00	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/08/21 12:00	
m&p-Xylene	ug/L	ND	1.0	01/08/21 12:00	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/08/21 12:00	
Methylene Chloride	ug/L	ND	2.0	01/08/21 12:00	
n-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
n-Propylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Naphthalene	ug/L	ND	2.0	01/08/21 12:00	
o-Xylene	ug/L	ND	0.50	01/08/21 12:00	
sec-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Styrene	ug/L	ND	0.50	01/08/21 12:00	
tert-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Tetrachloroethene	ug/L	ND	0.50	01/08/21 12:00	
Toluene	ug/L	ND	0.50	01/08/21 12:00	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
Trichloroethene	ug/L	ND	0.50	01/08/21 12:00	
Trichlorofluoromethane	ug/L	ND	1.0	01/08/21 12:00	
Vinyl chloride	ug/L	ND	1.0	01/08/21 12:00	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/08/21 12:00	
4-Bromofluorobenzene (S)	%	102	70-130	01/08/21 12:00	
Toluene-d8 (S)	%	98	70-130	01/08/21 12:00	

LABORATORY CONTROL SAMPLE: 3122700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	46.6	93	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethane	ug/L	50	46.0	92	60-140	
1,1-Dichloroethene	ug/L	50	46.4	93	60-140	
1,1-Dichloropropene	ug/L	50	47.1	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.5	97	60-140	
1,2,3-Trichloropropane	ug/L	50	50.0	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.9	96	60-140	
1,2-Dichloroethane	ug/L	50	46.5	93	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.7	99	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515354

LABORATORY CONTROL SAMPLE: 3122700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.9	96	60-140	
2,2-Dichloropropane	ug/L	50	46.4	93	60-140	
2-Chlorotoluene	ug/L	50	48.4	97	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	45.6	91	60-140	
Bromobenzene	ug/L	50	48.0	96	60-140	
Bromochloromethane	ug/L	50	47.1	94	60-140	
Bromodichloromethane	ug/L	50	47.0	94	60-140	
Bromoform	ug/L	50	53.6	107	60-140	
Bromomethane	ug/L	50	41.2	82	60-140	
Carbon tetrachloride	ug/L	50	48.5	97	60-140	
Chlorobenzene	ug/L	50	49.9	100	60-140	
Chloroethane	ug/L	50	36.7	73	60-140	
Chloroform	ug/L	50	45.5	91	60-140	
Chloromethane	ug/L	50	36.0	72	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.4	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	48.3	97	60-140	
Dichlorodifluoromethane	ug/L	50	33.0	66	60-140	
Diisopropyl ether	ug/L	50	48.0	96	60-140	
Ethylbenzene	ug/L	50	48.1	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	60-140	
m&p-Xylene	ug/L	100	95.5	95	60-140	
Methyl-tert-butyl ether	ug/L	50	49.6	99	60-140	
Methylene Chloride	ug/L	50	42.3	85	60-140	
n-Butylbenzene	ug/L	50	51.1	102	60-140	
n-Propylbenzene	ug/L	50	48.3	97	60-140	
Naphthalene	ug/L	50	50.8	102	60-140	
o-Xylene	ug/L	50	49.4	99	60-140	
sec-Butylbenzene	ug/L	50	48.7	97	60-140	
Styrene	ug/L	50	50.1	100	60-140	
tert-Butylbenzene	ug/L	50	40.4	81	60-140	
Tetrachloroethene	ug/L	50	47.7	95	60-140	
Toluene	ug/L	50	46.6	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	60-140	
Trichloroethene	ug/L	50	47.4	95	60-140	
Trichlorofluoromethane	ug/L	50	39.0	78	60-140	
Vinyl chloride	ug/L	50	35.7	71	60-140	
1,2-Dichloroethane-d4 (S)	%			95	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 (1/7/21)
Pace Project No.: 92515354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122701 3122702

Parameter	Units	92515014004 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	200	200	224	238	112	119	60-140	6	
1,1,1-Trichloroethane	ug/L	ND	200	200	231	237	115	118	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	203	213	101	107	60-140	5	
1,1,2-Trichloroethane	ug/L	ND	200	200	222	219	111	110	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	227	233	113	117	60-140	3	
1,1-Dichloroethene	ug/L	ND	200	200	243	243	121	121	60-140	0	
1,1-Dichloropropene	ug/L	ND	200	200	234	238	117	119	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	194	210	97	105	60-140	8	
1,2,3-Trichloropropane	ug/L	ND	200	200	202	215	101	107	60-140	6	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,2,4-Trimethylbenzene	ug/L	73.5	200	200	302	302	114	114	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	201	207	100	103	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	205	218	103	109	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	217	214	108	107	60-140	2	
1,2-Dichloroethane	ug/L	ND	200	200	217	220	108	110	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	224	224	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	239	239	120	119	60-140	0	
1,3-Dichlorobenzene	ug/L	ND	200	200	213	215	106	107	60-140	1	
1,3-Dichloropropane	ug/L	ND	200	200	219	227	109	114	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	200	200	210	211	105	106	60-140	1	
2,2-Dichloropropane	ug/L	ND	200	200	230	231	115	115	60-140	0	
2-Chlorotoluene	ug/L	ND	200	200	216	220	108	110	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	218	216	109	108	60-140	1	
Benzene	ug/L	291	200	200	512	526	111	118	60-140	3	
Bromobenzene	ug/L	ND	200	200	212	212	106	106	60-140	0	
Bromochloromethane	ug/L	ND	200	200	229	229	114	115	60-140	0	
Bromodichloromethane	ug/L	ND	200	200	216	221	108	110	60-140	2	
Bromoform	ug/L	ND	200	200	215	220	108	110	60-140	2	
Bromomethane	ug/L	ND	200	200	149	189	74	95	60-140	24	
Carbon tetrachloride	ug/L	ND	200	200	233	242	117	121	60-140	4	
Chlorobenzene	ug/L	ND	200	200	218	229	109	114	60-140	5	
Chloroethane	ug/L	ND	200	200	225	201	113	101	60-140	11	
Chloroform	ug/L	ND	200	200	222	219	111	109	60-140	1	
Chloromethane	ug/L	ND	200	200	169	184	85	92	60-140	9	
cis-1,2-Dichloroethene	ug/L	ND	200	200	218	221	109	110	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	223	226	112	113	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	226	229	113	115	60-140	1	
Dibromomethane	ug/L	ND	200	200	223	236	112	118	60-140	5	
Dichlorodifluoromethane	ug/L	ND	200	200	170	167	85	83	60-140	2	
Diisopropyl ether	ug/L	ND	200	200	219	225	110	113	60-140	3	
Ethylbenzene	ug/L	88.6	200	200	300	311	106	111	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	209	227	105	113	60-140	8	
Isopropylbenzene (Cumene)	ug/L	5.4	200	200	222	232	108	113	60-140	4	
m&p-Xylene	ug/L	313	400	400	728	760	104	112	60-140	4	
Methyl-tert-butyl ether	ug/L	ND	200	200	231	239	116	119	60-140	3	
Methylene Chloride	ug/L	ND	200	200	211	209	106	105	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122701 3122702

Parameter	Units	92515014004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	223	230	109	112	60-140	3	
n-Propylbenzene	ug/L	ND	200	200	226	234	113	117	60-140	4	
Naphthalene	ug/L	ND	200	200	219	227	102	106	60-140	4	
o-Xylene	ug/L	155	200	200	365	378	105	112	60-140	4	
sec-Butylbenzene	ug/L	ND	200	200	220	223	110	111	60-140	1	
Styrene	ug/L	ND	200	200	217	221	108	111	60-140	2	
tert-Butylbenzene	ug/L	ND	200	200	187	184	93	92	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	213	217	106	109	60-140	2	
Toluene	ug/L	961	200	200	1140	1180	90	110	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	200	200	226	231	113	115	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	200	200	229	232	114	116	60-140	1	
Trichloroethene	ug/L	ND	200	200	229	231	115	116	60-140	1	
Trichlorofluoromethane	ug/L	ND	200	200	203	201	102	100	60-140	1	
Vinyl chloride	ug/L	ND	200	200	186	187	93	93	60-140	0	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						99	101	70-130		
Toluene-d8 (S)	%						96	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 (1/7/21)
Pace Project No.: 92515354

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 Pipeline (1/7/21)
Pace Project No.: 92515354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515354001	**MW-64**	MADEPV	1602815	MADEP VPH	1602815
92515354002	**MW-65**	MADEPV	1602815	MADEP VPH	1602815
92515354003	**MW-70**	MADEPV	1602815	MADEP VPH	1602815
92515354004	**Dup-1-20210107**	MADEPV	1602815	MADEP VPH	1602815
92515354001	**MW-64**	EPA 3010A	591415	EPA 6010D	591431
92515354002	**MW-65**	EPA 3010A	591415	EPA 6010D	591431
92515354003	**MW-70**	EPA 3010A	591415	EPA 6010D	591431
92515354004	**Dup-1-20210107**	EPA 3010A	591415	EPA 6010D	591431
92515354001	**MW-64**	SM 6200B	591510		
92515354002	**MW-65**	SM 6200B	591510		
92515354003	**MW-70**	SM 6200B	591510		
92515354004	**Dup-1-20210107**	SM 6200B	591510		
92515354005	**Trip Blank**	SM 6200B	591510		

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

WO# : 92515354

92515354

Company: AECOM	Billing Information:
Address: 6000 Fairview Suite 700 Charlotte NC	
Report To: Andrew Wreschnig	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: Colonial Pipeline	State: NC / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email: 704-522-0330	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Erik Riegel	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 Pre

3	3	1								

** Preservative Types: (1) nitric ... (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	VPH	6010 Lead	Trip BLANK	Lab Profile/Line:
MW-64	GW	G	1/7/21	0914				8	X	X	X		001
MW-65	GW	G		0950									002
MW-70	GW	G		1012									003
Dup-1-20210107	GW	G	—	—									004
Trip Blank	—	—	LAB Provided		—	—		2				X	005

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:
92515354

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 #: 2615477

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: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Erik Riegel / AECOM	1/7/21 1322	VS PACE HVL	1/7/21 1322
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

January 11, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515387

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515387

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 (1/7/21)
Pace Project No.: 92515387

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515387001	**MW- 42**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515387002	**MW- 66**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515387003	**MW- 67**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515387004	**MW- 68**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515387005	**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
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515387

Sample: MW- 42 **Lab ID: 92515387001** Collected: 01/07/21 10:05 Received: 01/07/21 14:20 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	01/09/21 10:29	01/09/21 10:29		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 10:29	01/09/21 10:29		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 10:29	01/09/21 10:29	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 10:29	01/09/21 10:29	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.3	%	70.0-130	1	01/09/21 10:29	01/09/21 10:29	615-59-8FID	
2,5-Dibromotoluene (PID)	76.4	%	70.0-130	1	01/09/21 10:29	01/09/21 10:29	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	01/08/21 01:37	01/08/21 17:06	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 17:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 17:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 17:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 17:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 17:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 17:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 17:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 17:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 17:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 17:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 17:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 17:55	75-00-3	
Chloroform	**6.8**	ug/L	0.50	1		01/08/21 17:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 17:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 17:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 17:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 17:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 17:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 17:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 17:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 17:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 17:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 17:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 17:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 17:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 17:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 17:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 17:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 17:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 17:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 17:55	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 (1/7/21)
Pace Project No.: 92515387

Sample: MW- 42 **Lab ID: 92515387001** Collected: 01/07/21 10:05 Received: 01/07/21 14:20 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		01/08/21 17:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 17:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 17:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 17:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 17:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 17:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 17:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 17:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 17:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 17:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 17:55	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 17:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 17:55	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 17:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 17:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 17:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 17:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 17:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 17:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 17:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 17:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 17:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 17:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 17:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 17:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 17:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/08/21 17:55	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		01/08/21 17:55	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 17:55	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 (1/7/21)
Pace Project No.: 92515387

Sample: MW- 66 **Lab ID: 92515387002** Collected: 01/07/21 09:20 Received: 01/07/21 14:20 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	01/09/21 11:02	01/09/21 11:02		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 11:02	01/09/21 11:02		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 11:02	01/09/21 11:02	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 11:02	01/09/21 11:02	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.1	%	70.0-130	1	01/09/21 11:02	01/09/21 11:02	615-59-8FID	
2,5-Dibromotoluene (PID)	79.7	%	70.0-130	1	01/09/21 11:02	01/09/21 11:02	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**107**	ug/L	5.0	1	01/08/21 01:37	01/08/21 17:31	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 18:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 18:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 18:13	74-97-5	
Bromodichloromethane	**2.8**	ug/L	0.50	1		01/08/21 18:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 18:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 18:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 18:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 18:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 18:13	75-00-3	
Chloroform	**12.0**	ug/L	0.50	1		01/08/21 18:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 18:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 18:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 18:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 18:13	96-12-8	
Dibromochloromethane	**0.63**	ug/L	0.50	1		01/08/21 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 18:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 18:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:13	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515387

Sample: MW- 66 **Lab ID: 92515387002** Collected: 01/07/21 09:20 Received: 01/07/21 14:20 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		01/08/21 18:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 18:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 18:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 18:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 18:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 18:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 18:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 18:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 18:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 18:13	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 18:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 18:13	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 18:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 18:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 18:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 18:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 18:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 18:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 18:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 18:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 18:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 18:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/08/21 18:13	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/08/21 18:13	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/08/21 18:13	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 (1/7/21)
Pace Project No.: 92515387

Sample: MW- 67 **Lab ID: 92515387003** Collected: 01/07/21 09:00 Received: 01/07/21 14:20 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)	**116**	ug/L	100	1	01/09/21 11:35	01/09/21 11:35		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 11:35	01/09/21 11:35		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 11:35	01/09/21 11:35	TPHC9C10A	
Total VPH	**116**	ug/L	100	1	01/09/21 11:35	01/09/21 11:35	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.5	%	70.0-130	1	01/09/21 11:35	01/09/21 11:35	615-59-8FID	
2,5-Dibromotoluene (PID)	78.7	%	70.0-130	1	01/09/21 11:35	01/09/21 11:35	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**23.2**	ug/L	5.0	1	01/08/21 01:37	01/08/21 17:35	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 18:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 18:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 18:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 18:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 18:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 18:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 18:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 18:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 18:31	75-00-3	
Chloroform	**1.5**	ug/L	0.50	1		01/08/21 18:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 18:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 18:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 18:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 18:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 18:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 18:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 18:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 18:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 18:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:31	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 (1/7/21)
Pace Project No.: 92515387

Sample: MW- 67 **Lab ID: 92515387003** Collected: 01/07/21 09:00 Received: 01/07/21 14:20 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		01/08/21 18:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 18:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 18:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 18:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 18:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 18:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 18:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 18:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 18:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 18:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 18:31	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 18:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 18:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 18:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 18:31	127-18-4	
Toluene	**106**	ug/L	0.50	1		01/08/21 18:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 18:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 18:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 18:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 18:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 18:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 18:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 18:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 18:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 18:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 18:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 18:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 18:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/08/21 18:31	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/08/21 18:31	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/08/21 18:31	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 (1/7/21)
Pace Project No.: 92515387

Sample: MW- 68 **Lab ID: 92515387004** Collected: 01/07/21 10:00 Received: 01/07/21 14:20 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	01/09/21 12:08	01/09/21 12:08		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 12:08	01/09/21 12:08		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 12:08	01/09/21 12:08	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 12:08	01/09/21 12:08	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.1	%	70.0-130	1	01/09/21 12:08	01/09/21 12:08	615-59-8FID	
2,5-Dibromotoluene (PID)	79.3	%	70.0-130	1	01/09/21 12:08	01/09/21 12:08	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**99.2**	ug/L	5.0	1	01/08/21 01:37	01/08/21 17:38	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 18:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 18:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 18:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 18:48	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 18:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 18:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:48	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 18:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 18:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 18:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 18:48	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/08/21 18:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 18:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 18:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 18:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 18:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 18:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 18:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 18:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 18:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 18:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 18:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 18:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 18:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 18:48	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515387

Sample: MW- 68 **Lab ID: 92515387004** Collected: 01/07/21 10:00 Received: 01/07/21 14:20 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		01/08/21 18:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 18:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 18:48	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 18:48	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 18:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 18:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 18:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 18:48	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 18:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 18:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 18:48	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 18:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 18:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 18:48	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 18:48	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 18:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 18:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 18:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 18:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 18:48	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 18:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 18:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 18:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 18:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 18:48	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 18:48	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 18:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 18:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/08/21 18:48	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/08/21 18:48	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 18:48	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 (1/7/21)
Pace Project No.: 92515387

Sample: Trip Blank **Lab ID: 92515387005** Collected: 01/07/21 00:00 Received: 01/07/21 14:20 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		01/08/21 14:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 14:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 14:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 14:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 14:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 14:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 14:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 14:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 14:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 14:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 14:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 14:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/08/21 14:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 14:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 14:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 14:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 14:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 14:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 14:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 14:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 14:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 14:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 14:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 14:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 14:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 14:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 14:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 14:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 14:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 14:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 14:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/08/21 14:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 14:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 14:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 14:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 14:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 14:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 14:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 14:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 14:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 14:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 14:57	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 14:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 14:57	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 (1/7/21)
Pace Project No.: 92515387

Sample: Trip Blank **Lab ID: 92515387005** Collected: 01/07/21 00:00 Received: 01/07/21 14:20 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		01/08/21 14:57	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 14:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 14:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 14:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 14:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 14:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 14:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 14:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 14:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 14:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 14:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 14:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 14:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 14:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/08/21 14:57	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/08/21 14:57	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 14:57	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 (1/7/21)
Pace Project No.: 92515387

QC Batch: 1602815 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515387001, 92515387002, 92515387003, 92515387004

METHOD BLANK: R3611153-3 Matrix: Water
Associated Lab Samples: 92515387001, 92515387002, 92515387003, 92515387004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 05:28	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 05:28	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 05:28	
Total VPH	ug/L	ND	100	01/09/21 05:28	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/09/21 05:28	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 05:28	

LABORATORY CONTROL SAMPLE & LCSD: R3611153-1 R3611153-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1090	1080	90.8	90.0	70.0-130	0.922	25	
Aliphatic (C09-C12)	ug/L	1400	1590	1550	114	111	70.0-130	2.55	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	200	197	100	98.5	70.0-130	1.51	25	
Total VPH	ug/L	2800	2880	2830	103	101	70.0-130	1.75	25	
2,5-Dibromotoluene (FID)	%				95.5	94.9	70.0-130			
2,5-Dibromotoluene (PID)	%				85.1	85.8	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
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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515387

QC Batch: 591414 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515387001, 92515387002, 92515387003, 92515387004

METHOD BLANK: 3122325 Matrix: Water
Associated Lab Samples: 92515387001, 92515387002, 92515387003, 92515387004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/08/21 16:59	

LABORATORY CONTROL SAMPLE: 3122326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	476	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122327 3122328

Parameter	Units	92515387001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	492	500	98	100	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 (1/7/21)
Pace Project No.: 92515387

QC Batch: 591510 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515387001, 92515387002, 92515387003, 92515387004, 92515387005

METHOD BLANK: 3122699 Matrix: Water

Associated Lab Samples: 92515387001, 92515387002, 92515387003, 92515387004, 92515387005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
1,1-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/08/21 12:00	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/08/21 12:00	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/08/21 12:00	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichloroethane	ug/L	ND	0.50	01/08/21 12:00	
1,2-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
1,3-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
2,2-Dichloropropane	ug/L	ND	0.50	01/08/21 12:00	
2-Chlorotoluene	ug/L	ND	0.50	01/08/21 12:00	
4-Chlorotoluene	ug/L	ND	0.50	01/08/21 12:00	
Benzene	ug/L	ND	0.50	01/08/21 12:00	
Bromobenzene	ug/L	ND	0.50	01/08/21 12:00	
Bromochloromethane	ug/L	ND	0.50	01/08/21 12:00	
Bromodichloromethane	ug/L	ND	0.50	01/08/21 12:00	
Bromoform	ug/L	ND	0.50	01/08/21 12:00	
Bromomethane	ug/L	ND	5.0	01/08/21 12:00	
Carbon tetrachloride	ug/L	ND	0.50	01/08/21 12:00	
Chlorobenzene	ug/L	ND	0.50	01/08/21 12:00	
Chloroethane	ug/L	ND	1.0	01/08/21 12:00	
Chloroform	ug/L	ND	0.50	01/08/21 12:00	
Chloromethane	ug/L	ND	1.0	01/08/21 12:00	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
Dibromochloromethane	ug/L	ND	0.50	01/08/21 12:00	
Dibromomethane	ug/L	ND	0.50	01/08/21 12:00	
Dichlorodifluoromethane	ug/L	ND	0.50	01/08/21 12:00	
Diisopropyl ether	ug/L	ND	0.50	01/08/21 12:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the 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 (1/7/21)
Pace Project No.: 92515387

METHOD BLANK: 3122699 Matrix: Water
Associated Lab Samples: 92515387001, 92515387002, 92515387003, 92515387004, 92515387005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/08/21 12:00	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/08/21 12:00	
m&p-Xylene	ug/L	ND	1.0	01/08/21 12:00	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/08/21 12:00	
Methylene Chloride	ug/L	ND	2.0	01/08/21 12:00	
n-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
n-Propylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Naphthalene	ug/L	ND	2.0	01/08/21 12:00	
o-Xylene	ug/L	ND	0.50	01/08/21 12:00	
sec-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Styrene	ug/L	ND	0.50	01/08/21 12:00	
tert-Butylbenzene	ug/L	ND	0.50	01/08/21 12:00	
Tetrachloroethene	ug/L	ND	0.50	01/08/21 12:00	
Toluene	ug/L	ND	0.50	01/08/21 12:00	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 12:00	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 12:00	
Trichloroethene	ug/L	ND	0.50	01/08/21 12:00	
Trichlorofluoromethane	ug/L	ND	1.0	01/08/21 12:00	
Vinyl chloride	ug/L	ND	1.0	01/08/21 12:00	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/08/21 12:00	
4-Bromofluorobenzene (S)	%	102	70-130	01/08/21 12:00	
Toluene-d8 (S)	%	98	70-130	01/08/21 12:00	

LABORATORY CONTROL SAMPLE: 3122700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	46.6	93	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	60-140	
1,1,2-Trichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethane	ug/L	50	46.0	92	60-140	
1,1-Dichloroethene	ug/L	50	46.4	93	60-140	
1,1-Dichloropropene	ug/L	50	47.1	94	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.5	97	60-140	
1,2,3-Trichloropropane	ug/L	50	50.0	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	60-140	
1,2-Dichlorobenzene	ug/L	50	47.9	96	60-140	
1,2-Dichloroethane	ug/L	50	46.5	93	60-140	
1,2-Dichloropropane	ug/L	50	47.2	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.7	99	60-140	

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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 (1/7/21)
Pace Project No.: 92515387

LABORATORY CONTROL SAMPLE: 3122700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	47.9	96	60-140	
2,2-Dichloropropane	ug/L	50	46.4	93	60-140	
2-Chlorotoluene	ug/L	50	48.4	97	60-140	
4-Chlorotoluene	ug/L	50	49.4	99	60-140	
Benzene	ug/L	50	45.6	91	60-140	
Bromobenzene	ug/L	50	48.0	96	60-140	
Bromochloromethane	ug/L	50	47.1	94	60-140	
Bromodichloromethane	ug/L	50	47.0	94	60-140	
Bromoform	ug/L	50	53.6	107	60-140	
Bromomethane	ug/L	50	41.2	82	60-140	
Carbon tetrachloride	ug/L	50	48.5	97	60-140	
Chlorobenzene	ug/L	50	49.9	100	60-140	
Chloroethane	ug/L	50	36.7	73	60-140	
Chloroform	ug/L	50	45.5	91	60-140	
Chloromethane	ug/L	50	36.0	72	60-140	
cis-1,2-Dichloroethene	ug/L	50	44.4	89	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	48.3	97	60-140	
Dichlorodifluoromethane	ug/L	50	33.0	66	60-140	
Diisopropyl ether	ug/L	50	48.0	96	60-140	
Ethylbenzene	ug/L	50	48.1	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.0	98	60-140	
m&p-Xylene	ug/L	100	95.5	95	60-140	
Methyl-tert-butyl ether	ug/L	50	49.6	99	60-140	
Methylene Chloride	ug/L	50	42.3	85	60-140	
n-Butylbenzene	ug/L	50	51.1	102	60-140	
n-Propylbenzene	ug/L	50	48.3	97	60-140	
Naphthalene	ug/L	50	50.8	102	60-140	
o-Xylene	ug/L	50	49.4	99	60-140	
sec-Butylbenzene	ug/L	50	48.7	97	60-140	
Styrene	ug/L	50	50.1	100	60-140	
tert-Butylbenzene	ug/L	50	40.4	81	60-140	
Tetrachloroethene	ug/L	50	47.7	95	60-140	
Toluene	ug/L	50	46.6	93	60-140	
trans-1,2-Dichloroethene	ug/L	50	44.5	89	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	60-140	
Trichloroethene	ug/L	50	47.4	95	60-140	
Trichlorofluoromethane	ug/L	50	39.0	78	60-140	
Vinyl chloride	ug/L	50	35.7	71	60-140	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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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 (1/7/21)
Pace Project No.: 92515387

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122701 3122702

Parameter	Units	92515014004 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	200	200	224	238	112	119	60-140	6	
1,1,1-Trichloroethane	ug/L	ND	200	200	231	237	115	118	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	203	213	101	107	60-140	5	
1,1,2-Trichloroethane	ug/L	ND	200	200	222	219	111	110	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	227	233	113	117	60-140	3	
1,1-Dichloroethene	ug/L	ND	200	200	243	243	121	121	60-140	0	
1,1-Dichloropropene	ug/L	ND	200	200	234	238	117	119	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	194	210	97	105	60-140	8	
1,2,3-Trichloropropane	ug/L	ND	200	200	202	215	101	107	60-140	6	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,2,4-Trimethylbenzene	ug/L	73.5	200	200	302	302	114	114	60-140	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	201	207	100	103	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	205	218	103	109	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	217	214	108	107	60-140	2	
1,2-Dichloroethane	ug/L	ND	200	200	217	220	108	110	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	224	224	112	112	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	239	239	120	119	60-140	0	
1,3-Dichlorobenzene	ug/L	ND	200	200	213	215	106	107	60-140	1	
1,3-Dichloropropane	ug/L	ND	200	200	219	227	109	114	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	200	200	210	211	105	106	60-140	1	
2,2-Dichloropropane	ug/L	ND	200	200	230	231	115	115	60-140	0	
2-Chlorotoluene	ug/L	ND	200	200	216	220	108	110	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	218	216	109	108	60-140	1	
Benzene	ug/L	291	200	200	512	526	111	118	60-140	3	
Bromobenzene	ug/L	ND	200	200	212	212	106	106	60-140	0	
Bromochloromethane	ug/L	ND	200	200	229	229	114	115	60-140	0	
Bromodichloromethane	ug/L	ND	200	200	216	221	108	110	60-140	2	
Bromoform	ug/L	ND	200	200	215	220	108	110	60-140	2	
Bromomethane	ug/L	ND	200	200	149	189	74	95	60-140	24	
Carbon tetrachloride	ug/L	ND	200	200	233	242	117	121	60-140	4	
Chlorobenzene	ug/L	ND	200	200	218	229	109	114	60-140	5	
Chloroethane	ug/L	ND	200	200	225	201	113	101	60-140	11	
Chloroform	ug/L	ND	200	200	222	219	111	109	60-140	1	
Chloromethane	ug/L	ND	200	200	169	184	85	92	60-140	9	
cis-1,2-Dichloroethene	ug/L	ND	200	200	218	221	109	110	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	223	226	112	113	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	226	229	113	115	60-140	1	
Dibromomethane	ug/L	ND	200	200	223	236	112	118	60-140	5	
Dichlorodifluoromethane	ug/L	ND	200	200	170	167	85	83	60-140	2	
Diisopropyl ether	ug/L	ND	200	200	219	225	110	113	60-140	3	
Ethylbenzene	ug/L	88.6	200	200	300	311	106	111	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	209	227	105	113	60-140	8	
Isopropylbenzene (Cumene)	ug/L	5.4	200	200	222	232	108	113	60-140	4	
m&p-Xylene	ug/L	313	400	400	728	760	104	112	60-140	4	
Methyl-tert-butyl ether	ug/L	ND	200	200	231	239	116	119	60-140	3	
Methylene Chloride	ug/L	ND	200	200	211	209	106	105	60-140	1	

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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 (1/7/21)
Pace Project No.: 92515387

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3122701 3122702

Parameter	Units	92515014004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	223	230	109	112	60-140	3	
n-Propylbenzene	ug/L	ND	200	200	226	234	113	117	60-140	4	
Naphthalene	ug/L	ND	200	200	219	227	102	106	60-140	4	
o-Xylene	ug/L	155	200	200	365	378	105	112	60-140	4	
sec-Butylbenzene	ug/L	ND	200	200	220	223	110	111	60-140	1	
Styrene	ug/L	ND	200	200	217	221	108	111	60-140	2	
tert-Butylbenzene	ug/L	ND	200	200	187	184	93	92	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	213	217	106	109	60-140	2	
Toluene	ug/L	961	200	200	1140	1180	90	110	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	200	200	226	231	113	115	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	200	200	229	232	114	116	60-140	1	
Trichloroethene	ug/L	ND	200	200	229	231	115	116	60-140	1	
Trichlorofluoromethane	ug/L	ND	200	200	203	201	102	100	60-140	1	
Vinyl chloride	ug/L	ND	200	200	186	187	93	93	60-140	0	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						99	101	70-130		
Toluene-d8 (S)	%						96	97	70-130		

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515387

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 Pipeline (1/7/21)
Pace Project No.: 92515387

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515387001	**MW- 42**	MADEPV	1602815	MADEP VPH	1602815
92515387002	**MW- 66**	MADEPV	1602815	MADEP VPH	1602815
92515387003	**MW- 67**	MADEPV	1602815	MADEP VPH	1602815
92515387004	**MW- 68**	MADEPV	1602815	MADEP VPH	1602815
92515387001	**MW- 42**	EPA 3010A	591414	EPA 6010D	591432
92515387002	**MW- 66**	EPA 3010A	591414	EPA 6010D	591432
92515387003	**MW- 67**	EPA 3010A	591414	EPA 6010D	591432
92515387004	**MW- 68**	EPA 3010A	591414	EPA 6010D	591432
92515387001	**MW- 42**	SM 6200B	591510		
92515387002	**MW- 66**	SM 6200B	591510		
92515387003	**MW- 67**	SM 6200B	591510		
92515387004	**MW- 68**	SM 6200B	591510		
92515387005	**Trip Blank**	SM 6200B	591510		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- Affix Workorde
M

WO# : 92515387

92515387

ALL SHADED

Container Preservative Type **

Nicole Casiorowski

** 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: AECOM	Billing Information:
Address: 6000 Fairview Rd. Suite 200	
Report To: andrew.wreschnig@aecom.com	Email To: andrew.wreschnig@aecom.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: CPC Huntersville 60639876	State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: (980) 221-7831 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print):	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	6200	VPH	6010 Lead	Trip Blank	Lab Sample # / Comments
MW-42	WT	G			1/7/21	1005		8	X	X	X		92515387 001
MW-66	"	"			"	0920		"	"	"	"		002
MW-67	"	"			"	0900		"	"	"	"		003
MW-68	"	"			"	1000		"	"	"	"		004
Trip Blank	"		Lab Provided								"	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: bubble bags + bubble wrap

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

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

Lab Tracking #: 2618709

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: 4.7 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 4.6 oC

Comments:

Relinquished by/Company: (Signature) Emily R. Love / AECOM	Date/Time: 1/7/2021 1420	Received by/Company: (Signature) HD PACE HVL	Date/Time: 1/7/2021 1420
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

January 11, 2021

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

RE: Project: 2020-L1-2448
Pace Project No.: 92515543

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Angela 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
Pace Project No.: 92515543

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
Pace Project No.: 92515543

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515543001	**EB-1-20210107**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515543002	**FB-1-20210107**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515543004	**DUP-1-20210107**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515543006	**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
Pace Project No.: 92515543

Sample: EB-1-20210107 **Lab ID: 92515543001** Collected: 01/07/21 10:00 Received: 01/07/21 17:45 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	01/09/21 21:57	01/09/21 21:57		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 21:57	01/09/21 21:57		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 21:57	01/09/21 21:57	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 21:57	01/09/21 21:57	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.0	%	70.0-130	1	01/09/21 21:57	01/09/21 21:57	615-59-8FID	
2,5-Dibromotoluene (PID)	84.8	%	70.0-130	1	01/09/21 21:57	01/09/21 21:57	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**21.3**	ug/L	5.0	1	01/09/21 02:10	01/09/21 14:06	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 23:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 23:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 23:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 23:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 23:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 23:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 23:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 23:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 23:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 23:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 23:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 23:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/08/21 23:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 23:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 23:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 23:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 23:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 23:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 23:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 23:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 23:33	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: 2020-L1-2448
Pace Project No.: 92515543

Sample: EB-1-20210107 **Lab ID: 92515543001** Collected: 01/07/21 10:00 Received: 01/07/21 17:45 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		01/08/21 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 23:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 23:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 23:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 23:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 23:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 23:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 23:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 23:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 23:33	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 23:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 23:33	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 23:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 23:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 23:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 23:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 23:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 23:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 23:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 23:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/08/21 23:33	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/08/21 23:33	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 23:33	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: 2020-L1-2448
Pace Project No.: 92515543

Sample: FB-1-20210107 **Lab ID: 92515543002** Collected: 01/07/21 10:15 Received: 01/07/21 17:45 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	01/09/21 22:30	01/09/21 22:30		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 22:30	01/09/21 22:30		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 22:30	01/09/21 22:30	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 22:30	01/09/21 22:30	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.9	%	70.0-130	1	01/09/21 22:30	01/09/21 22:30	615-59-8FID	
2,5-Dibromotoluene (PID)	83.7	%	70.0-130	1	01/09/21 22:30	01/09/21 22:30	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	01/09/21 02:10	01/09/21 14:25	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/08/21 23:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/08/21 23:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/08/21 23:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/08/21 23:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/08/21 23:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/08/21 23:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/08/21 23:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/08/21 23:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/08/21 23:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/08/21 23:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/08/21 23:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/08/21 23:51	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/08/21 23:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/08/21 23:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 23:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/08/21 23:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/08/21 23:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/08/21 23:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/08/21 23:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/08/21 23:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 23:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 23:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/08/21 23:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/08/21 23:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/08/21 23:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/08/21 23:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/08/21 23:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 23:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/08/21 23:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 23:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/08/21 23:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/08/21 23:51	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
Pace Project No.: 92515543

Sample: FB-1-20210107 **Lab ID: 92515543002** Collected: 01/07/21 10:15 Received: 01/07/21 17:45 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		01/08/21 23:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 23:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/08/21 23:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/08/21 23:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/08/21 23:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/08/21 23:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/08/21 23:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/08/21 23:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/08/21 23:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/08/21 23:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/08/21 23:51	103-65-1	
Styrene	ND	ug/L	0.50	1		01/08/21 23:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 23:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/08/21 23:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/08/21 23:51	127-18-4	
Toluene	ND	ug/L	0.50	1		01/08/21 23:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 23:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/08/21 23:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/08/21 23:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/08/21 23:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/08/21 23:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/08/21 23:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/08/21 23:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 23:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/08/21 23:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/08/21 23:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/08/21 23:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/08/21 23:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/08/21 23:51	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/08/21 23:51	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/08/21 23:51	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: 2020-L1-2448
Pace Project No.: 92515543

Sample: DUP-1-20210107 **Lab ID: 92515543004** Collected: 01/07/21 12:45 Received: 01/07/21 17:45 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	01/10/21 00:21	01/10/21 00:21		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/10/21 00:21	01/10/21 00:21		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/10/21 00:21	01/10/21 00:21	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/10/21 00:21	01/10/21 00:21	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.9	%	70.0-130	1	01/10/21 00:21	01/10/21 00:21	615-59-8FID	
2,5-Dibromotoluene (PID)	83.1	%	70.0-130	1	01/10/21 00:21	01/10/21 00:21	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	01/09/21 02:10	01/09/21 14:32	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 00:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 00:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 00:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 00:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 00:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 00:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 00:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 00:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 00:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 00:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 00:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 00:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 00:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 00:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 00:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 00:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 00:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 00:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 00:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 00:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:45	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: 2020-L1-2448
Pace Project No.: 92515543

Sample: DUP-1-20210107 **Lab ID: 92515543004** Collected: 01/07/21 12:45 Received: 01/07/21 17:45 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		01/09/21 00:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 00:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 00:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 00:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 00:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 00:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 00:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 00:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 00:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 00:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 00:45	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 00:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 00:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 00:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 00:45	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 00:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 00:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 00:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 00:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 00:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 00:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 00:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 00:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 00:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 00:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 00:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 00:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 00:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/09/21 00:45	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/09/21 00:45	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/09/21 00:45	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: 2020-L1-2448
Pace Project No.: 92515543

Sample: TRIP BLANK **Lab ID: 92515543006** Collected: 01/07/21 00:00 Received: 01/07/21 17:45 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		01/09/21 00:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 00:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 00:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 00:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 00:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 00:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 00:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 00:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 00:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 00:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 00:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 00:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 00:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 00:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 00:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 00:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 00:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 00:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 00:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 00:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/09/21 00:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 00:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 00:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 00:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 00:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 00:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 00:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 00:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 00:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 00:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 00:09	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 00:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 00:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 00:09	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
Pace Project No.: 92515543

Sample: TRIP BLANK **Lab ID: 92515543006** Collected: 01/07/21 00:00 Received: 01/07/21 17:45 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		01/09/21 00:09	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 00:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 00:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 00:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 00:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 00:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 00:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 00:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 00:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 00:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 00:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 00:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 00:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 00:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/09/21 00:09	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		01/09/21 00:09	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/09/21 00:09	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
Pace Project No.: 92515543

QC Batch: 1603010
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515543001, 92515543002, 92515543004

METHOD BLANK: R3611200-3 Matrix: Water
Associated Lab Samples: 92515543001, 92515543002, 92515543004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 20:50	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 20:50	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 20:50	
Total VPH	ug/L	ND	100	01/09/21 20:50	
2,5-Dibromotoluene (FID)	%	88.2	70.0-130	01/09/21 20:50	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 20:50	

LABORATORY CONTROL SAMPLE & LCSD: R3611200-1 R3611200-2

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	1030	86.7	85.8	70.0-130	0.966	25	
Aliphatic (C09-C12)	ug/L	1400	1490	1450	106	104	70.0-130	2.72	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	184	93.0	92.0	70.0-130	1.08	25	
Total VPH	ug/L	2800	2720	2660	97.1	95.0	70.0-130	2.23	25	
2,5-Dibromotoluene (FID)	%				96.7	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.2	85.0	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
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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92515543

QC Batch: 591657
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515543001, 92515543002, 92515543004

METHOD BLANK: 3123871 Matrix: Water
Associated Lab Samples: 92515543001, 92515543002, 92515543004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/09/21 14:00	

LABORATORY CONTROL SAMPLE: 3123872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3123873 3123874

Parameter	Units	92515543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	21.3	500	500	470	469	90	90	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: 2020-L1-2448
Pace Project No.: 92515543

QC Batch: 591592 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515543001, 92515543002, 92515543004, 92515543006

METHOD BLANK: 3123278 Matrix: Water
Associated Lab Samples: 92515543001, 92515543002, 92515543004, 92515543006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/08/21 23:16	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/08/21 23:16	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/08/21 23:16	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
1,3-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
2,2-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
2-Chlorotoluene	ug/L	ND	0.50	01/08/21 23:16	
4-Chlorotoluene	ug/L	ND	0.50	01/08/21 23:16	
Benzene	ug/L	ND	0.50	01/08/21 23:16	
Bromobenzene	ug/L	ND	0.50	01/08/21 23:16	
Bromochloromethane	ug/L	ND	0.50	01/08/21 23:16	
Bromodichloromethane	ug/L	ND	0.50	01/08/21 23:16	
Bromoform	ug/L	ND	0.50	01/08/21 23:16	
Bromomethane	ug/L	ND	5.0	01/08/21 23:16	
Carbon tetrachloride	ug/L	ND	0.50	01/08/21 23:16	
Chlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
Chloroethane	ug/L	ND	1.0	01/08/21 23:16	
Chloroform	ug/L	ND	0.50	01/08/21 23:16	
Chloromethane	ug/L	ND	1.0	01/08/21 23:16	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
Dibromochloromethane	ug/L	ND	0.50	01/08/21 23:16	
Dibromomethane	ug/L	ND	0.50	01/08/21 23:16	
Dichlorodifluoromethane	ug/L	ND	0.50	01/08/21 23:16	
Diisopropyl ether	ug/L	ND	0.50	01/08/21 23:16	

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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
Pace Project No.: 92515543

METHOD BLANK: 3123278 Matrix: Water
Associated Lab Samples: 92515543001, 92515543002, 92515543004, 92515543006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/08/21 23:16	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/08/21 23:16	
m&p-Xylene	ug/L	ND	1.0	01/08/21 23:16	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/08/21 23:16	
Methylene Chloride	ug/L	ND	2.0	01/08/21 23:16	
n-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
n-Propylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Naphthalene	ug/L	ND	2.0	01/08/21 23:16	
o-Xylene	ug/L	ND	0.50	01/08/21 23:16	
sec-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Styrene	ug/L	ND	0.50	01/08/21 23:16	
tert-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Tetrachloroethene	ug/L	ND	0.50	01/08/21 23:16	
Toluene	ug/L	ND	0.50	01/08/21 23:16	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
Trichloroethene	ug/L	ND	0.50	01/08/21 23:16	
Trichlorofluoromethane	ug/L	ND	1.0	01/08/21 23:16	
Vinyl chloride	ug/L	ND	1.0	01/08/21 23:16	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/08/21 23:16	
4-Bromofluorobenzene (S)	%	107	70-130	01/08/21 23:16	
Toluene-d8 (S)	%	102	70-130	01/08/21 23:16	

LABORATORY CONTROL SAMPLE: 3123279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.6	115	60-140	
1,1,1-Trichloroethane	ug/L	50	54.5	109	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	60-140	
1,1,2-Trichloroethane	ug/L	50	55.9	112	60-140	
1,1-Dichloroethane	ug/L	50	53.9	108	60-140	
1,1-Dichloroethene	ug/L	50	56.4	113	60-140	
1,1-Dichloropropene	ug/L	50	53.6	107	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.7	103	60-140	
1,2,3-Trichloropropane	ug/L	50	54.3	109	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.5	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.5	109	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.9	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.4	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	53.0	106	60-140	
1,2-Dichloropropane	ug/L	50	54.0	108	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.5	107	60-140	

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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
Pace Project No.: 92515543

LABORATORY CONTROL SAMPLE: 3123279

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	56.0	112	60-140	
1,4-Dichlorobenzene	ug/L	50	51.5	103	60-140	
2,2-Dichloropropane	ug/L	50	54.5	109	60-140	
2-Chlorotoluene	ug/L	50	52.6	105	60-140	
4-Chlorotoluene	ug/L	50	53.0	106	60-140	
Benzene	ug/L	50	53.0	106	60-140	
Bromobenzene	ug/L	50	51.8	104	60-140	
Bromochloromethane	ug/L	50	56.3	113	60-140	
Bromodichloromethane	ug/L	50	55.1	110	60-140	
Bromoform	ug/L	50	58.5	117	60-140	
Bromomethane	ug/L	50	48.9	98	60-140	
Carbon tetrachloride	ug/L	50	56.7	113	60-140	
Chlorobenzene	ug/L	50	53.6	107	60-140	
Chloroethane	ug/L	50	46.5	93	60-140	
Chloroform	ug/L	50	51.5	103	60-140	
Chloromethane	ug/L	50	44.1	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.7	105	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.8	116	60-140	
Dibromochloromethane	ug/L	50	59.3	119	60-140	
Dibromomethane	ug/L	50	55.5	111	60-140	
Dichlorodifluoromethane	ug/L	50	42.2	84	60-140	
Diisopropyl ether	ug/L	50	54.2	108	60-140	
Ethylbenzene	ug/L	50	51.3	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	51.5	103	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.9	106	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	56.2	112	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.3	109	60-140	
n-Propylbenzene	ug/L	50	51.6	103	60-140	
Naphthalene	ug/L	50	54.8	110	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	52.5	105	60-140	
Styrene	ug/L	50	53.1	106	60-140	
tert-Butylbenzene	ug/L	50	43.8	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	52.3	105	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.6	107	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.7	119	60-140	
Trichloroethene	ug/L	50	55.2	110	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	44.2	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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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
Pace Project No.: 92515543

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124129 3124130

Parameter	Units	92515543003 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	12.8	17.0	64	85	60-140	28	
1,1,1-Trichloroethane	ug/L	ND	20	20	13.0	17.7	65	89	60-140	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	12.9	16.5	64	83	60-140	25	
1,1,2-Trichloroethane	ug/L	ND	20	20	12.5	16.7	62	83	60-140	29	
1,1-Dichloroethane	ug/L	ND	20	20	13.0	17.9	65	89	60-140	31	R1
1,1-Dichloroethene	ug/L	ND	20	20	14.4	19.7	72	99	60-140	31	R1
1,1-Dichloropropene	ug/L	ND	20	20	15.0	19.5	75	98	60-140	26	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.1	17.1	80	85	60-140	6	
1,2,3-Trichloropropane	ug/L	ND	20	20	12.7	16.9	64	84	60-140	28	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.6	17.3	78	86	60-140	10	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	13.3	17.4	66	87	60-140	27	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.7	18.0	74	90	60-140	20	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	13.2	17.4	66	87	60-140	27	
1,2-Dichlorobenzene	ug/L	ND	20	20	12.5	16.1	63	81	60-140	25	
1,2-Dichloroethane	ug/L	ND	20	20	12.8	17.7	64	89	60-140	32	R1
1,2-Dichloropropane	ug/L	ND	20	20	12.7	17.2	63	86	60-140	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	13.6	18.1	68	90	60-140	28	
1,3-Dichlorobenzene	ug/L	ND	20	20	13.3	17.1	67	85	60-140	25	
1,3-Dichloropropane	ug/L	ND	20	20	13.1	17.0	65	85	60-140	26	
1,4-Dichlorobenzene	ug/L	ND	20	20	12.4	16.1	62	81	60-140	26	
2,2-Dichloropropane	ug/L	ND	20	20	14.5	20.3	73	102	60-140	33	R1
2-Chlorotoluene	ug/L	ND	20	20	12.9	16.7	64	84	60-140	26	
4-Chlorotoluene	ug/L	ND	20	20	13.1	17.2	66	86	60-140	27	
Benzene	ug/L	ND	20	20	12.2	15.9	61	80	60-140	27	
Bromobenzene	ug/L	ND	20	20	12.3	16.2	61	81	60-140	28	
Bromochloromethane	ug/L	ND	20	20	13.2	17.5	66	88	60-140	28	
Bromodichloromethane	ug/L	ND	20	20	11.8	15.9	59	79	60-140	29	M1
Bromoform	ug/L	ND	20	20	12.8	17.0	64	85	60-140	28	
Bromomethane	ug/L	ND	20	20	13.4	17.7	67	89	60-140	28	
Carbon tetrachloride	ug/L	ND	20	20	12.9	17.2	65	86	60-140	28	
Chlorobenzene	ug/L	ND	20	20	12.7	16.5	64	82	60-140	26	
Chloroethane	ug/L	ND	20	20	13.8	18.4	69	92	60-140	29	
Chloroform	ug/L	ND	20	20	12.4	17.1	62	85	60-140	32	R1
Chloromethane	ug/L	ND	20	20	12.8	15.8	64	79	60-140	21	
cis-1,2-Dichloroethene	ug/L	ND	20	20	13.0	17.6	65	88	60-140	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	13.4	17.9	67	90	60-140	29	
Dibromochloromethane	ug/L	ND	20	20	13.4	17.9	67	90	60-140	29	
Dibromomethane	ug/L	ND	20	20	12.6	16.6	63	83	60-140	28	
Dichlorodifluoromethane	ug/L	ND	20	20	11.7	15.9	59	79	60-140	30	M1
Diisopropyl ether	ug/L	ND	20	20	12.1	17.0	60	85	60-140	34	R1
Ethylbenzene	ug/L	ND	20	20	13.2	17.4	66	87	60-140	27	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.0	20.0	85	100	60-140	16	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	13.3	17.5	67	87	60-140	27	
m&p-Xylene	ug/L	ND	40	40	27.1	35.3	68	88	60-140	26	
Methyl-tert-butyl ether	ug/L	ND	20	20	12.0	16.7	60	83	60-140	32	R1
Methylene Chloride	ug/L	ND	20	20	13.5	18.0	68	90	60-140	29	

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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
Pace Project No.: 92515543

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124129 3124130

Parameter	Units	92515543003 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	14.4	18.4	72	92	60-140	24	
n-Propylbenzene	ug/L	ND	20	20	13.9	18.3	69	91	60-140	27	
Naphthalene	ug/L	ND	20	20	15.5	16.5	77	83	60-140	6	
o-Xylene	ug/L	ND	20	20	12.4	16.2	62	81	60-140	27	
sec-Butylbenzene	ug/L	ND	20	20	14.1	18.3	71	91	60-140	26	
Styrene	ug/L	ND	20	20	12.8	16.7	64	83	60-140	26	
tert-Butylbenzene	ug/L	ND	20	20	11.4	15.0	57	75	60-140	27	M1
Tetrachloroethene	ug/L	ND	20	20	12.9	17.0	64	85	60-140	28	
Toluene	ug/L	ND	20	20	12.8	16.9	64	84	60-140	27	
trans-1,2-Dichloroethene	ug/L	ND	20	20	13.7	19.1	69	96	60-140	33	R1
trans-1,3-Dichloropropene	ug/L	ND	20	20	13.3	17.4	67	87	60-140	27	
Trichloroethene	ug/L	ND	20	20	13.0	16.9	65	84	60-140	26	
Trichlorofluoromethane	ug/L	ND	20	20	13.1	18.1	65	90	60-140	32	R1
Vinyl chloride	ug/L	ND	20	20	12.5	16.9	63	85	60-140	30	
1,2-Dichloroethane-d4 (S)	%						106	109	70-130		
4-Bromofluorobenzene (S)	%						99	99	70-130		
Toluene-d8 (S)	%						100	99	70-130		

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 2020-L1-2448
Pace Project No.: 92515543

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: 2020-L1-2448
Pace Project No.: 92515543

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515543001	**EB-1-20210107**	MADEPV	1603010	MADEP VPH	1603010
92515543002	**FB-1-20210107**	MADEPV	1603010	MADEP VPH	1603010
92515543004	**DUP-1-20210107**	MADEPV	1603010	MADEP VPH	1603010
92515543001	**EB-1-20210107**	EPA 3010A	591657	EPA 6010D	591685
92515543002	**FB-1-20210107**	EPA 3010A	591657	EPA 6010D	591685
92515543004	**DUP-1-20210107**	EPA 3010A	591657	EPA 6010D	591685
92515543001	**EB-1-20210107**	SM 6200B	591592		
92515543002	**FB-1-20210107**	SM 6200B	591592		
92515543004	**DUP-1-20210107**	SM 6200B	591592		
92515543006	**TRIP BLANK**	SM 6200B	591592		

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

WO# : 92515543

92515543

Company: APEX COMPANIES	Billing Information: ANDREW.STREET@APEXCOS.COM
Address: 5900 NORTHWOODS BUSINESS PKWY CHARLOTTE NC	
Report To: ANDREW.STREET@APEXCOS.COM	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: CPC2012G	State: NC / MECKLENBURG County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email:	Site/Facility ID #: COLONIAL PIPELINE HUNTERSVILLE
Collected By (print): TOM NAUMANN	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: STANDARD
Sample Disposal: [X] 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 [X] No
	DW PWS ID #: DW Location Code:
	Immediately Packed on Ice: [X] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [X] 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 6200	VPH	LEAD	Lab Sample # / Comments
EB-1-20210107	GW	G	1/7/21	1000					X	X	X	001
FB-1-20210107				1015					X	X	X	002
MW-65D (115-150)				1230					X	X	X	003
DUP-1-20210107				1245					X	X	X	004
MW-62D (125-143)				1630					X	X	X	005
TRIP BLANK									X			006

92515543

*Due to extreme rush for -003 and -005 they are logged on separate WO

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: b.bags

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

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

Lab Tracking #: 2561067

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: 1.3 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 1.2 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
TOM NAUMANN / APEX	1/7/21 1745		1/8/21 1745
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# : 92515543**

PM: AMB Due Date: 01/14/21

CLIENT: 92-APEX MOOR

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	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																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 Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 13, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

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 (1/7/21)
Pace Project No.: 92515544

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515544001	**MW-57**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515544002	**MW-56**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515544003	**MW-53**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515544004	**MW-63**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515544005	**MW-54**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515544006	**MW-38**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515544007	**FB-1-20210107**	MADEP VPH	JHH	6	PAN
		SM 6200B	PM1	63	PASI-C
92515544008	**Trip Blank**	SM 6200B	PM1	63	PASI-C

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

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Sample: MW-57 **Lab ID: 92515544001** Collected: 01/07/21 12:55 Received: 01/07/21 17:30 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	01/11/21 02:42	01/11/21 02:42		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/11/21 02:42	01/11/21 02:42		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 02:42	01/11/21 02:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/11/21 02:42	01/11/21 02:42	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.5	%	70.0-130	1	01/11/21 02:42	01/11/21 02:42	615-59-8FID	
2,5-Dibromotoluene (PID)	84.8	%	70.0-130	1	01/11/21 02:42	01/11/21 02:42	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	01/09/21 02:10	01/11/21 00:28	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 13:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 13:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 13:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 13:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 13:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 13:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 13:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 13:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 13:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 13:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 13:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 13:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 13:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 13:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 13:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 13:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 13:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 13:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 13:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 13:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 13:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 13:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 13:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 13:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 13:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 13:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 13:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 13:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 13:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 13:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 13:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 13:07	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Sample: MW-57 **Lab ID: 92515544001** Collected: 01/07/21 12:55 Received: 01/07/21 17:30 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		01/12/21 13:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 13:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 13:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 13:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 13:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 13:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 13:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 13:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 13:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 13:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 13:07	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 13:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 13:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 13:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 13:07	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 13:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 13:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 13:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 13:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 13:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 13:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 13:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 13:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 13:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 13:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 13:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 13:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 13:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		01/12/21 13:07	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		01/12/21 13:07	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/12/21 13:07	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Sample: MW-56 **Lab ID: 92515544002** Collected: 01/07/21 11:55 Received: 01/07/21 17:30 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	01/11/21 03:16	01/11/21 03:16		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/11/21 03:16	01/11/21 03:16		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 03:16	01/11/21 03:16	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/11/21 03:16	01/11/21 03:16	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.5	%	70.0-130	1	01/11/21 03:16	01/11/21 03:16	615-59-8FID	
2,5-Dibromotoluene (PID)	84.3	%	70.0-130	1	01/11/21 03:16	01/11/21 03:16	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**8.0**	ug/L	5.0	1	01/09/21 02:10	01/11/21 00:31	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 14:08	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 14:08	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 14:08	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 14:08	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 14:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 14:08	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:08	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:08	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:08	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 14:08	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 14:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 14:08	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 14:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 14:08	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 14:08	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 14:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 14:08	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 14:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 14:08	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 14:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 14:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 14:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 14:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:08	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 (1/7/21)
Pace Project No.: 92515544

Sample: MW-56 **Lab ID: 92515544002** Collected: 01/07/21 11:55 Received: 01/07/21 17:30 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		01/09/21 14:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 14:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 14:08	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 14:08	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 14:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 14:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 14:08	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 14:08	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 14:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 14:08	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 14:08	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 14:08	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 14:08	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 14:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 14:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 14:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 14:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 14:08	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 14:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 14:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 14:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 14:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 14:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 14:08	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 14:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 14:08	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/09/21 14:08	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/09/21 14:08	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/09/21 14:08	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 (1/7/21)
Pace Project No.: 92515544

Sample: MW-53 **Lab ID: 92515544003** Collected: 01/07/21 15:00 Received: 01/07/21 17:30 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	01/11/21 03:49	01/11/21 03:49		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/11/21 03:49	01/11/21 03:49		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 03:49	01/11/21 03:49	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/11/21 03:49	01/11/21 03:49	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.2	%	70.0-130	1	01/11/21 03:49	01/11/21 03:49	615-59-8FID	
2,5-Dibromotoluene (PID)	81.8	%	70.0-130	1	01/11/21 03:49	01/11/21 03:49	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**123**	ug/L	5.0	1	01/09/21 02:10	01/11/21 00:34	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 14:26	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 14:26	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 14:26	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 14:26	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 14:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 14:26	74-83-9	M1
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:26	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:26	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:26	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 14:26	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 14:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 14:26	75-00-3	M1
Chloroform	**0.97**	ug/L	0.50	1		01/09/21 14:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 14:26	74-87-3	M1
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 14:26	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 14:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 14:26	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 14:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 14:26	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 14:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 14:26	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 14:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:26	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 (1/7/21)
Pace Project No.: 92515544

Sample: MW-53 **Lab ID: 92515544003** Collected: 01/07/21 15:00 Received: 01/07/21 17:30 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		01/09/21 14:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 14:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 14:26	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 14:26	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 14:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 14:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 14:26	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 14:26	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 14:26	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 14:26	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 14:26	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 14:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 14:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 14:26	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 14:26	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 14:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 14:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 14:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 14:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 14:26	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 14:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 14:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 14:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 14:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 14:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 14:26	75-01-4	M1
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 14:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 14:26	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		01/09/21 14:26	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/09/21 14:26	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/09/21 14:26	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 (1/7/21)
Pace Project No.: 92515544

Sample: MW-63 **Lab ID: 92515544004** Collected: 01/07/21 15:20 Received: 01/07/21 17:30 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	01/11/21 04:22	01/11/21 04:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/11/21 04:22	01/11/21 04:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 04:22	01/11/21 04:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/11/21 04:22	01/11/21 04:22	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.0	%	70.0-130	1	01/11/21 04:22	01/11/21 04:22	615-59-8FID	
2,5-Dibromotoluene (PID)	81.6	%	70.0-130	1	01/11/21 04:22	01/11/21 04:22	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	01/09/21 02:10	01/11/21 00:37	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 14:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 14:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 14:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 14:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 14:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 14:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 14:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 14:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 14:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 14:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 14:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 14:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 14:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 14:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 14:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 14:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 14:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 14:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 14:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 14:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 14:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 14:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 14:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 14:43	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Sample: MW-63 **Lab ID: 92515544004** Collected: 01/07/21 15:20 Received: 01/07/21 17:30 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		01/09/21 14:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 14:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 14:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 14:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 14:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 14:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 14:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 14:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 14:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 14:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 14:43	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 14:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 14:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 14:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 14:43	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 14:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 14:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 14:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 14:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 14:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 14:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 14:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 14:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 14:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 14:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 14:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 14:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 14:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/09/21 14:43	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/09/21 14:43	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/09/21 14:43	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 (1/7/21)
Pace Project No.: 92515544

Sample: MW-54 **Lab ID: 92515544005** Collected: 01/07/21 15:30 Received: 01/07/21 17:30 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	01/11/21 04:55	01/11/21 04:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/11/21 04:55	01/11/21 04:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 04:55	01/11/21 04:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/11/21 04:55	01/11/21 04:55	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	100	%	70.0-130	1	01/11/21 04:55	01/11/21 04:55	615-59-8FID	
2,5-Dibromotoluene (PID)	86.3	%	70.0-130	1	01/11/21 04:55	01/11/21 04:55	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**29.1**	ug/L	5.0	1	01/09/21 02:10	01/10/21 21:55	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 15:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 15:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 15:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 15:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 15:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 15:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 15:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 15:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 15:01	75-00-3	
Chloroform	**1.5**	ug/L	0.50	1		01/09/21 15:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 15:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 15:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 15:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 15:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 15:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 15:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 15:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 15:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 15:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 15:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:01	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Sample: MW-54 **Lab ID: 92515544005** Collected: 01/07/21 15:30 Received: 01/07/21 17:30 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		01/09/21 15:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 15:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 15:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 15:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 15:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 15:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 15:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 15:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 15:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 15:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 15:01	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 15:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 15:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 15:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 15:01	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 15:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 15:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 15:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 15:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 15:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 15:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 15:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 15:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 15:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 15:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 15:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 15:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 15:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/09/21 15:01	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/09/21 15:01	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/09/21 15:01	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 (1/7/21)
Pace Project No.: 92515544

Sample: MW-38 **Lab ID: 92515544006** Collected: 01/07/21 16:35 Received: 01/07/21 17:30 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)	**389**	ug/L	100	1	01/11/21 05:29	01/11/21 05:29		
Aliphatic (C09-C12)	**107**	ug/L	100	1	01/11/21 05:29	01/11/21 05:29		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 05:29	01/11/21 05:29	TPHC9C10A	
Total VPH	**532**	ug/L	100	1	01/11/21 05:29	01/11/21 05:29	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/11/21 05:29	01/11/21 05:29	615-59-8FID	
2,5-Dibromotoluene (PID)	85.6	%	70.0-130	1	01/11/21 05:29	01/11/21 05:29	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**13.2**	ug/L	5.0	1	01/09/21 02:10	01/10/21 21:58	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	**78.1**	ug/L	0.50	1		01/09/21 15:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 15:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 15:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 15:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 15:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 15:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 15:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 15:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 15:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 15:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 15:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 15:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 15:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 15:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 15:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 15:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 15:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 15:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 15:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 15:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:37	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 (1/7/21)
Pace Project No.: 92515544

Sample: MW-38 **Lab ID: 92515544006** Collected: 01/07/21 16:35 Received: 01/07/21 17:30 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		01/09/21 15:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 15:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 15:37	10061-02-6	
Diisopropyl ether	**37.7**	ug/L	0.50	1		01/09/21 15:37	108-20-3	
Ethylbenzene	**8.5**	ug/L	0.50	1		01/09/21 15:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 15:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 15:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 15:37	75-09-2	
Methyl-tert-butyl ether	**13.8**	ug/L	0.50	1		01/09/21 15:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 15:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 15:37	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 15:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 15:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 15:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 15:37	127-18-4	
Toluene	**79.5**	ug/L	0.50	1		01/09/21 15:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 15:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 15:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 15:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 15:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 15:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 15:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 15:37	96-18-4	
1,2,4-Trimethylbenzene	**3.7**	ug/L	0.50	1		01/09/21 15:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 15:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 15:37	75-01-4	
m&p-Xylene	**34.0**	ug/L	1.0	1		01/09/21 15:37	179601-23-1	
o-Xylene	**20.6**	ug/L	0.50	1		01/09/21 15:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/09/21 15:37	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/09/21 15:37	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/09/21 15:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Sample: FB-1-20210107 **Lab ID: 92515544007** Collected: 01/07/21 16:50 Received: 01/07/21 17:30 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	01/11/21 01:34	01/11/21 01:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/11/21 01:34	01/11/21 01:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 01:34	01/11/21 01:34	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/11/21 01:34	01/11/21 01:34	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.0	%	70.0-130	1	01/11/21 01:34	01/11/21 01:34	615-59-8FID	
2,5-Dibromotoluene (PID)	81.4	%	70.0-130	1	01/11/21 01:34	01/11/21 01:34	615-59-8PID	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 12:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 12:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 12:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 12:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 12:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 12:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 12:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 12:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 12:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 12:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 12:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 12:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 12:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 12:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 12:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 12:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 12:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 12:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 12:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 12:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 12:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 12:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 12:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 12:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 12:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 12:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 12:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 12:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 12:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 12:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 12:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/09/21 12:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 12:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 12:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 12:39	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 (1/7/21)
Pace Project No.: 92515544

Sample: FB-1-20210107 **Lab ID: 92515544007** Collected: 01/07/21 16:50 Received: 01/07/21 17:30 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		01/09/21 12:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 12:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 12:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 12:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 12:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 12:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 12:39	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 12:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 12:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 12:39	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 12:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 12:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 12:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 12:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 12:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 12:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 12:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 12:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 12:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 12:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 12:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 12:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 12:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/09/21 12:39	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/09/21 12:39	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/09/21 12:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

Sample: Trip Blank **Lab ID: 92515544008** Collected: 01/07/21 00:00 Received: 01/07/21 17:30 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		01/09/21 12:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 12:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 12:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 12:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 12:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 12:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 12:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 12:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 12:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 12:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 12:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 12:56	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 12:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 12:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 12:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 12:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 12:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 12:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 12:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 12:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 12:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 12:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 12:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 12:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 12:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 12:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 12:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 12:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 12:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 12:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 12:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 12:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/09/21 12:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 12:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 12:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 12:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 12:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 12:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 12:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 12:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 12:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 12:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 12:56	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 12:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 12:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 12:56	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 (1/7/21)
Pace Project No.: 92515544

Sample: Trip Blank **Lab ID: 92515544008** Collected: 01/07/21 00:00 Received: 01/07/21 17:30 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		01/09/21 12:56	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 12:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 12:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 12:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 12:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 12:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 12:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 12:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 12:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 12:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 12:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 12:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 12:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 12:56	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/09/21 12:56	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		01/09/21 12:56	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/09/21 12:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

QC Batch: 1603522 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515544001, 92515544002, 92515544003, 92515544004, 92515544005, 92515544006, 92515544007

METHOD BLANK: R3611370-3 Matrix: Water
Associated Lab Samples: 92515544001, 92515544002, 92515544003, 92515544004, 92515544005, 92515544006, 92515544007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/11/21 01:01	
Aliphatic (C09-C12)	ug/L	ND	100	01/11/21 01:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/11/21 01:01	
Total VPH	ug/L	ND	100	01/11/21 01:01	
2,5-Dibromotoluene (FID)	%	90	70.0-130	01/11/21 01:01	
2,5-Dibromotoluene (PID)	%	76.6	70.0-130	01/11/21 01:01	

LABORATORY CONTROL SAMPLE & LCSD: R3611370-1 R3611370-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1360	1410	113	117	70.0-130	3.61	25	
Aliphatic (C09-C12)	ug/L	1400	1520	1560	109	111	70.0-130	2.60	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	187	185	93.5	92.5	70.0-130	1.08	25	
Total VPH	ug/L	2800	3070	3160	110	113	70.0-130	2.89	25	
2,5-Dibromotoluene (FID)	%				99.3	98.6	70.0-130			
2,5-Dibromotoluene (PID)	%				85.8	86.2	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

QC Batch: 591658 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515544001, 92515544002, 92515544003, 92515544004

METHOD BLANK: 3123875 Matrix: Water
Associated Lab Samples: 92515544001, 92515544002, 92515544003, 92515544004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/10/21 23:07	

LABORATORY CONTROL SAMPLE: 3123876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	465	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3123877 3123878

Parameter	Units	92514193022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	472	475	94	95	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

QC Batch: 591659
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515544005, 92515544006

METHOD BLANK: 3123879 Matrix: Water
Associated Lab Samples: 92515544005, 92515544006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/10/21 21:19	

LABORATORY CONTROL SAMPLE: 3123880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	465	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3123881 3123882

Parameter	Units	92514480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	430	432	86	86	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

QC Batch: 591710 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515544002, 92515544003, 92515544004, 92515544005, 92515544006, 92515544007, 92515544008

METHOD BLANK: 3124000 Matrix: Water
Associated Lab Samples: 92515544002, 92515544003, 92515544004, 92515544005, 92515544006, 92515544007, 92515544008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1-Dichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1-Dichloroethene	ug/L	ND	0.50	01/09/21 11:28	
1,1-Dichloropropene	ug/L	ND	0.50	01/09/21 11:28	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/09/21 11:28	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/09/21 11:28	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/09/21 11:28	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/09/21 11:28	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dichloropropane	ug/L	ND	0.50	01/09/21 11:28	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/09/21 11:28	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
1,3-Dichloropropane	ug/L	ND	0.50	01/09/21 11:28	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
2,2-Dichloropropane	ug/L	ND	0.50	01/09/21 11:28	
2-Chlorotoluene	ug/L	ND	0.50	01/09/21 11:28	
4-Chlorotoluene	ug/L	ND	0.50	01/09/21 11:28	
Benzene	ug/L	ND	0.50	01/09/21 11:28	
Bromobenzene	ug/L	ND	0.50	01/09/21 11:28	
Bromochloromethane	ug/L	ND	0.50	01/09/21 11:28	
Bromodichloromethane	ug/L	ND	0.50	01/09/21 11:28	
Bromoform	ug/L	ND	0.50	01/09/21 11:28	
Bromomethane	ug/L	ND	5.0	01/09/21 11:28	
Carbon tetrachloride	ug/L	ND	0.50	01/09/21 11:28	
Chlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
Chloroethane	ug/L	ND	1.0	01/09/21 11:28	
Chloroform	ug/L	ND	0.50	01/09/21 11:28	
Chloromethane	ug/L	ND	1.0	01/09/21 11:28	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/09/21 11:28	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/09/21 11:28	
Dibromochloromethane	ug/L	ND	0.50	01/09/21 11:28	
Dibromomethane	ug/L	ND	0.50	01/09/21 11:28	
Dichlorodifluoromethane	ug/L	ND	0.50	01/09/21 11:28	
Diisopropyl ether	ug/L	ND	0.50	01/09/21 11:28	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

METHOD BLANK: 3124000 Matrix: Water
Associated Lab Samples: 92515544002, 92515544003, 92515544004, 92515544005, 92515544006, 92515544007, 92515544008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/09/21 11:28	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/09/21 11:28	
m&p-Xylene	ug/L	ND	1.0	01/09/21 11:28	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/09/21 11:28	
Methylene Chloride	ug/L	ND	2.0	01/09/21 11:28	
n-Butylbenzene	ug/L	ND	0.50	01/09/21 11:28	
n-Propylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Naphthalene	ug/L	ND	2.0	01/09/21 11:28	
o-Xylene	ug/L	ND	0.50	01/09/21 11:28	
sec-Butylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Styrene	ug/L	ND	0.50	01/09/21 11:28	
tert-Butylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Tetrachloroethene	ug/L	ND	0.50	01/09/21 11:28	
Toluene	ug/L	ND	0.50	01/09/21 11:28	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/09/21 11:28	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/09/21 11:28	
Trichloroethene	ug/L	ND	0.50	01/09/21 11:28	
Trichlorofluoromethane	ug/L	ND	1.0	01/09/21 11:28	
Vinyl chloride	ug/L	ND	1.0	01/09/21 11:28	
1,2-Dichloroethane-d4 (S)	%	100	70-130	01/09/21 11:28	
4-Bromofluorobenzene (S)	%	102	70-130	01/09/21 11:28	
Toluene-d8 (S)	%	102	70-130	01/09/21 11:28	

LABORATORY CONTROL SAMPLE: 3124001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.7	109	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	60-140	
1,1,2-Trichloroethane	ug/L	50	53.8	108	60-140	
1,1-Dichloroethane	ug/L	50	52.2	104	60-140	
1,1-Dichloroethene	ug/L	50	52.6	105	60-140	
1,1-Dichloropropene	ug/L	50	51.4	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.9	100	60-140	
1,2,3-Trichloropropane	ug/L	50	48.7	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.4	109	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.3	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.5	101	60-140	
1,2-Dichloropropane	ug/L	50	52.1	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.8	104	60-140	

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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 (1/7/21)
Pace Project No.: 92515544

LABORATORY CONTROL SAMPLE: 3124001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.5	103	60-140	
1,3-Dichloropropane	ug/L	50	52.2	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	60-140	
2,2-Dichloropropane	ug/L	50	54.3	109	60-140	
2-Chlorotoluene	ug/L	50	52.0	104	60-140	
4-Chlorotoluene	ug/L	50	52.1	104	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	50.0	100	60-140	
Bromochloromethane	ug/L	50	52.5	105	60-140	
Bromodichloromethane	ug/L	50	52.4	105	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	42.6	85	60-140	
Carbon tetrachloride	ug/L	50	53.1	106	60-140	
Chlorobenzene	ug/L	50	50.0	100	60-140	
Chloroethane	ug/L	50	43.6	87	60-140	
Chloroform	ug/L	50	50.3	101	60-140	
Chloromethane	ug/L	50	36.8	74	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.4	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	53.2	106	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	36.9	74	60-140	
Diisopropyl ether	ug/L	50	53.4	107	60-140	
Ethylbenzene	ug/L	50	49.3	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.3	105	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	98.5	99	60-140	
Methyl-tert-butyl ether	ug/L	50	54.6	109	60-140	
Methylene Chloride	ug/L	50	47.6	95	60-140	
n-Butylbenzene	ug/L	50	54.6	109	60-140	
n-Propylbenzene	ug/L	50	51.7	103	60-140	
Naphthalene	ug/L	50	51.8	104	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	51.6	103	60-140	
Styrene	ug/L	50	50.4	101	60-140	
tert-Butylbenzene	ug/L	50	42.5	85	60-140	
Tetrachloroethene	ug/L	50	50.0	100	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.8	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	60-140	
Trichloroethene	ug/L	50	52.8	106	60-140	
Trichlorofluoromethane	ug/L	50	44.9	90	60-140	
Vinyl chloride	ug/L	50	40.0	80	60-140	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

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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 (1/7/21)
Pace Project No.: 92515544

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124002 3124003

Parameter	Units	92515544003 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	22.5	23.3	112	116	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.2	20.1	96	100	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.9	23.3	109	116	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.6	22.8	108	114	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	18.3	18.8	91	94	60-140	3	
1,1-Dichloroethene	ug/L	ND	20	20	15.8	16.2	79	81	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	19.7	20.3	99	102	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.2	22.8	106	114	60-140	8	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.8	22.3	109	112	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.8	23.2	109	116	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.5	23.6	113	118	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.8	24.8	114	124	60-140	8	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.9	23.1	110	115	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.4	22.7	107	113	60-140	6	
1,2-Dichloroethane	ug/L	ND	20	20	19.9	20.5	99	103	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	21.6	102	108	60-140	5	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	24.4	116	122	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.6	23.6	113	118	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	22.0	22.9	110	115	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.3	22.2	107	111	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	19.3	19.7	97	98	60-140	2	
2-Chlorotoluene	ug/L	ND	20	20	22.1	23.0	110	115	60-140	4	
4-Chlorotoluene	ug/L	ND	20	20	22.2	23.7	111	119	60-140	6	
Benzene	ug/L	ND	20	20	18.4	18.8	92	94	60-140	2	
Bromobenzene	ug/L	ND	20	20	21.9	22.9	109	114	60-140	4	
Bromochloromethane	ug/L	ND	20	20	19.9	20.6	99	103	60-140	4	
Bromodichloromethane	ug/L	ND	20	20	19.9	20.9	100	105	60-140	5	
Bromoform	ug/L	ND	20	20	22.1	22.9	110	114	60-140	3	
Bromomethane	ug/L	ND	20	20	7.3	7.4	36	37	60-140	2	M1
Carbon tetrachloride	ug/L	ND	20	20	19.4	19.8	97	99	60-140	2	
Chlorobenzene	ug/L	ND	20	20	21.3	22.3	106	111	60-140	5	
Chloroethane	ug/L	ND	20	20	11.1	11.2	56	56	60-140	0	M1
Chloroform	ug/L	0.97	20	20	20.5	20.9	97	100	60-140	2	
Chloromethane	ug/L	ND	20	20	2.8	3.1	14	16	60-140	13	M1
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.9	19.1	95	96	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	23.0	112	115	60-140	3	
Dibromochloromethane	ug/L	ND	20	20	23.1	24.1	116	120	60-140	4	
Dibromomethane	ug/L	ND	20	20	21.3	22.0	106	110	60-140	3	
Dichlorodifluoromethane	ug/L	ND	20	20	0.71	0.71	4	4	60-140	1	M1
Diisopropyl ether	ug/L	ND	20	20	19.3	19.8	96	99	60-140	2	
Ethylbenzene	ug/L	ND	20	20	22.2	23.2	111	116	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.5	25.4	117	127	60-140	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.7	23.6	114	118	60-140	4	
m&p-Xylene	ug/L	ND	40	40	45.1	47.5	113	119	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	19.4	94	97	60-140	4	
Methylene Chloride	ug/L	ND	20	20	17.6	18.1	88	90	60-140	3	

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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 (1/7/21)
Pace Project No.: 92515544

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124002 3124003

Parameter	Units	92515544003 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	22.5	24.0	113	120	60-140	6	
n-Propylbenzene	ug/L	ND	20	20	23.3	24.6	116	123	60-140	5	
Naphthalene	ug/L	ND	20	20	20.7	22.7	103	113	60-140	9	
o-Xylene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
sec-Butylbenzene	ug/L	ND	20	20	23.6	24.8	118	124	60-140	5	
Styrene	ug/L	ND	20	20	22.1	23.0	110	115	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	19.8	20.7	99	103	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	20.5	21.5	102	107	60-140	5	
Toluene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.9	18.5	90	92	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.1	23.0	111	115	60-140	4	
Trichloroethene	ug/L	ND	20	20	20.3	21.4	101	107	60-140	5	
Trichlorofluoromethane	ug/L	ND	20	20	12.5	12.6	62	63	60-140	1	
Vinyl chloride	ug/L	ND	20	20	5.6	5.7	28	29	60-140	1	M1
1,2-Dichloroethane-d4 (S)	%						104	103	70-130		
4-Bromofluorobenzene (S)	%						99	99	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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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 (1/7/21)
Pace Project No.: 92515544

QC Batch: 592070
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515544001

METHOD BLANK: 3125380 Matrix: Water
Associated Lab Samples: 92515544001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1-Dichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1-Dichloroethene	ug/L	ND	0.50	01/12/21 11:19	
1,1-Dichloropropene	ug/L	ND	0.50	01/12/21 11:19	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/12/21 11:19	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/12/21 11:19	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/12/21 11:19	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/12/21 11:19	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dichloropropane	ug/L	ND	0.50	01/12/21 11:19	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/12/21 11:19	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
1,3-Dichloropropane	ug/L	ND	0.50	01/12/21 11:19	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
2,2-Dichloropropane	ug/L	ND	0.50	01/12/21 11:19	
2-Chlorotoluene	ug/L	ND	0.50	01/12/21 11:19	
4-Chlorotoluene	ug/L	ND	0.50	01/12/21 11:19	
Benzene	ug/L	ND	0.50	01/12/21 11:19	
Bromobenzene	ug/L	ND	0.50	01/12/21 11:19	
Bromochloromethane	ug/L	ND	0.50	01/12/21 11:19	
Bromodichloromethane	ug/L	ND	0.50	01/12/21 11:19	
Bromoform	ug/L	ND	0.50	01/12/21 11:19	
Bromomethane	ug/L	ND	5.0	01/12/21 11:19	
Carbon tetrachloride	ug/L	ND	0.50	01/12/21 11:19	
Chlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
Chloroethane	ug/L	ND	1.0	01/12/21 11:19	
Chloroform	ug/L	ND	0.50	01/12/21 11:19	
Chloromethane	ug/L	ND	1.0	01/12/21 11:19	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 11:19	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 11:19	
Dibromochloromethane	ug/L	ND	0.50	01/12/21 11:19	
Dibromomethane	ug/L	ND	0.50	01/12/21 11:19	
Dichlorodifluoromethane	ug/L	ND	0.50	01/12/21 11:19	
Diisopropyl ether	ug/L	ND	0.50	01/12/21 11:19	

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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 (1/7/21)
Pace Project No.: 92515544

METHOD BLANK: 3125380 Matrix: Water
Associated Lab Samples: 92515544001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/12/21 11:19	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/12/21 11:19	
m&p-Xylene	ug/L	ND	1.0	01/12/21 11:19	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/12/21 11:19	
Methylene Chloride	ug/L	ND	2.0	01/12/21 11:19	
n-Butylbenzene	ug/L	ND	0.50	01/12/21 11:19	
n-Propylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Naphthalene	ug/L	ND	2.0	01/12/21 11:19	
o-Xylene	ug/L	ND	0.50	01/12/21 11:19	
sec-Butylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Styrene	ug/L	ND	0.50	01/12/21 11:19	
tert-Butylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Tetrachloroethene	ug/L	ND	0.50	01/12/21 11:19	
Toluene	ug/L	ND	0.50	01/12/21 11:19	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 11:19	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 11:19	
Trichloroethene	ug/L	ND	0.50	01/12/21 11:19	
Trichlorofluoromethane	ug/L	ND	1.0	01/12/21 11:19	
Vinyl chloride	ug/L	ND	1.0	01/12/21 11:19	
1,2-Dichloroethane-d4 (S)	%	100	70-130	01/12/21 11:19	
4-Bromofluorobenzene (S)	%	97	70-130	01/12/21 11:19	
Toluene-d8 (S)	%	100	70-130	01/12/21 11:19	

LABORATORY CONTROL SAMPLE: 3125381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.8	110	60-140	
1,1,1-Trichloroethane	ug/L	50	52.6	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	55.7	111	60-140	
1,1,2-Trichloroethane	ug/L	50	55.0	110	60-140	
1,1-Dichloroethane	ug/L	50	52.1	104	60-140	
1,1-Dichloroethene	ug/L	50	54.6	109	60-140	
1,1-Dichloropropene	ug/L	50	53.0	106	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.7	107	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	55.5	111	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.9	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	59.5	119	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	57.2	114	60-140	
1,2-Dichlorobenzene	ug/L	50	52.9	106	60-140	
1,2-Dichloroethane	ug/L	50	52.8	106	60-140	
1,2-Dichloropropane	ug/L	50	53.6	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	55.8	112	60-140	

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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 (1/7/21)
Pace Project No.: 92515544

LABORATORY CONTROL SAMPLE: 3125381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	56.0	112	60-140	
1,3-Dichloropropane	ug/L	50	56.3	113	60-140	
1,4-Dichlorobenzene	ug/L	50	52.2	104	60-140	
2,2-Dichloropropane	ug/L	50	58.5	117	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	55.8	112	60-140	
Benzene	ug/L	50	50.2	100	60-140	
Bromobenzene	ug/L	50	52.0	104	60-140	
Bromochloromethane	ug/L	50	56.4	113	60-140	
Bromodichloromethane	ug/L	50	51.3	103	60-140	
Bromoform	ug/L	50	58.5	117	60-140	
Bromomethane	ug/L	50	41.1	82	60-140	
Carbon tetrachloride	ug/L	50	51.6	103	60-140	
Chlorobenzene	ug/L	50	52.7	105	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.3	101	60-140	
Chloromethane	ug/L	50	43.4	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.5	117	60-140	
Dibromochloromethane	ug/L	50	59.5	119	60-140	
Dibromomethane	ug/L	50	56.5	113	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	50.8	102	60-140	
Ethylbenzene	ug/L	50	54.9	110	60-140	
Hexachloro-1,3-butadiene	ug/L	50	57.0	114	60-140	
Isopropylbenzene (Cumene)	ug/L	50	55.2	110	60-140	
m&p-Xylene	ug/L	100	112	112	60-140	
Methyl-tert-butyl ether	ug/L	50	53.4	107	60-140	
Methylene Chloride	ug/L	50	50.5	101	60-140	
n-Butylbenzene	ug/L	50	57.0	114	60-140	
n-Propylbenzene	ug/L	50	56.0	112	60-140	
Naphthalene	ug/L	50	54.9	110	60-140	
o-Xylene	ug/L	50	51.6	103	60-140	
sec-Butylbenzene	ug/L	50	55.7	111	60-140	
Styrene	ug/L	50	55.1	110	60-140	
tert-Butylbenzene	ug/L	50	46.1	92	60-140	
Tetrachloroethene	ug/L	50	54.3	109	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	55.6	111	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Trichloroethene	ug/L	50	54.0	108	60-140	
Trichlorofluoromethane	ug/L	50	45.4	91	60-140	
Vinyl chloride	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515544

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125382 3125383

Parameter	Units	92515281017 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	80	80	93.7	96.7	117	121	60-140	3	
1,1,1-Trichloroethane	ug/L	ND	80	80	95.0	91.3	119	114	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	80	80	93.5	93.6	117	117	60-140	0	
1,1,2-Trichloroethane	ug/L	ND	80	80	93.5	93.1	117	116	60-140	0	
1,1-Dichloroethane	ug/L	ND	80	80	91.9	92.3	115	115	60-140	0	
1,1-Dichloroethene	ug/L	ND	80	80	104	104	129	130	60-140	0	
1,1-Dichloropropene	ug/L	ND	80	80	97.0	98.5	121	123	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	80	80	84.6	93.2	106	117	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	80	80	90.0	90.0	112	112	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	80	80	86.3	94.5	108	118	60-140	9	
1,2,4-Trimethylbenzene	ug/L	30.1	80	80	125	131	118	126	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	80	80	96.0	101	120	126	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	80	80	96.5	97.6	121	122	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	80	80	87.3	92.3	109	115	60-140	6	
1,2-Dichloroethane	ug/L	ND	80	80	90.2	92.2	113	115	60-140	2	
1,2-Dichloropropane	ug/L	ND	80	80	94.2	96.8	118	121	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	80	80	99.8	106	125	133	60-140	6	
1,3-Dichlorobenzene	ug/L	ND	80	80	92.3	98.3	115	123	60-140	6	
1,3-Dichloropropane	ug/L	ND	80	80	94.0	95.3	118	119	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	80	80	87.3	93.2	109	116	60-140	7	
2,2-Dichloropropane	ug/L	ND	80	80	93.5	94.6	117	118	60-140	1	
2-Chlorotoluene	ug/L	ND	80	80	89.6	94.7	112	118	60-140	6	
4-Chlorotoluene	ug/L	ND	80	80	92.5	98.0	116	123	60-140	6	
Benzene	ug/L	190	80	80	279	287	110	121	60-140	3	
Bromobenzene	ug/L	ND	80	80	89.9	94.9	112	119	60-140	5	
Bromochloromethane	ug/L	ND	80	80	94.4	95.6	118	120	60-140	1	
Bromodichloromethane	ug/L	ND	80	80	86.4	87.8	108	110	60-140	2	
Bromoform	ug/L	ND	80	80	94.8	97.2	119	121	60-140	2	
Bromomethane	ug/L	ND	80	80	35.2	39.2	44	49	60-140	11	M1
Carbon tetrachloride	ug/L	ND	80	80	92.4	96.7	116	121	60-140	5	
Chlorobenzene	ug/L	ND	80	80	91.4	94.0	114	117	60-140	3	
Chloroethane	ug/L	ND	80	80	91.2	90.6	114	113	60-140	1	
Chloroform	ug/L	ND	80	80	87.8	90.4	110	113	60-140	3	
Chloromethane	ug/L	ND	80	80	77.1	77.5	96	97	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	80	80	89.1	89.9	111	112	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	80	80	97.3	98.5	122	123	60-140	1	
Dibromochloromethane	ug/L	ND	80	80	99.0	101	124	126	60-140	2	
Dibromomethane	ug/L	ND	80	80	96.1	96.3	120	120	60-140	0	
Dichlorodifluoromethane	ug/L	ND	80	80	108	106	135	132	60-140	2	
Diisopropyl ether	ug/L	ND	80	80	86.5	86.5	108	108	60-140	0	
Ethylbenzene	ug/L	481	80	80	582	602	127	151	60-140	3	M1
Hexachloro-1,3-butadiene	ug/L	ND	80	80	95.7	103	120	129	60-140	8	
Isopropylbenzene (Cumene)	ug/L	26.6	80	80	125	128	123	127	60-140	2	
m&p-Xylene	ug/L	24.4	160	160	222	228	124	127	60-140	2	
Methyl-tert-butyl ether	ug/L	ND	80	80	89.5	89.9	112	112	60-140	0	
Methylene Chloride	ug/L	ND	80	80	91.1	90.9	114	114	60-140	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 (1/7/21)
Pace Project No.: 92515544

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125382 3125383

Parameter	Units	92515281017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	80	80	94.4	101	118	127	60-140	7	
n-Propylbenzene	ug/L	46.9	80	80	142	152	119	131	60-140	7	
Naphthalene	ug/L	157	80	80	243	262	108	132	60-140	8	
o-Xylene	ug/L	10.2	80	80	101	103	114	116	60-140	2	
sec-Butylbenzene	ug/L	ND	80	80	98.8	105	124	132	60-140	6	
Styrene	ug/L	ND	80	80	93.3	95.7	117	120	60-140	3	
tert-Butylbenzene	ug/L	ND	80	80	81.8	86.2	102	108	60-140	5	
Tetrachloroethene	ug/L	ND	80	80	95.3	96.9	119	121	60-140	2	
Toluene	ug/L	41.3	80	80	137	139	119	122	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	80	80	97.2	97.2	121	121	60-140	0	
trans-1,3-Dichloropropene	ug/L	ND	80	80	94.5	96.8	118	121	60-140	2	
Trichloroethene	ug/L	ND	80	80	95.9	97.8	120	122	60-140	2	
Trichlorofluoromethane	ug/L	ND	80	80	95.2	98.9	119	124	60-140	4	
Vinyl chloride	ug/L	ND	80	80	93.7	94.2	117	118	60-140	1	
1,2-Dichloroethane-d4 (S)	%						101	98	70-130		
4-Bromofluorobenzene (S)	%						99	98	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 (1/7/21)
Pace Project No.: 92515544

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 (1/7/21)
Pace Project No.: 92515544

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515544001	**MW-57**	MADEPV	1603522	MADEP VPH	1603522
92515544002	**MW-56**	MADEPV	1603522	MADEP VPH	1603522
92515544003	**MW-53**	MADEPV	1603522	MADEP VPH	1603522
92515544004	**MW-63**	MADEPV	1603522	MADEP VPH	1603522
92515544005	**MW-54**	MADEPV	1603522	MADEP VPH	1603522
92515544006	**MW-38**	MADEPV	1603522	MADEP VPH	1603522
92515544007	**FB-1-20210107**	MADEPV	1603522	MADEP VPH	1603522
92515544001	**MW-57**	EPA 3010A	591658	EPA 6010D	591684
92515544002	**MW-56**	EPA 3010A	591658	EPA 6010D	591684
92515544003	**MW-53**	EPA 3010A	591658	EPA 6010D	591684
92515544004	**MW-63**	EPA 3010A	591658	EPA 6010D	591684
92515544005	**MW-54**	EPA 3010A	591659	EPA 6010D	591682
92515544006	**MW-38**	EPA 3010A	591659	EPA 6010D	591682
92515544001	**MW-57**	SM 6200B	592070		
92515544002	**MW-56**	SM 6200B	591710		
92515544003	**MW-53**	SM 6200B	591710		
92515544004	**MW-63**	SM 6200B	591710		
92515544005	**MW-54**	SM 6200B	591710		
92515544006	**MW-38**	SM 6200B	591710		
92515544007	**FB-1-20210107**	SM 6200B	591710		
92515544008	**Trip Blank**	SM 6200B	591710		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project # WO# : 92515544

92515544

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☒ Client

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 1/8/21 IO

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: 1.7 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.6

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

				Comments/Discrepancy:
Chain of Custody Present?	☒ 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. sample FB-1 does not have a nitric acid container. The COC says there should be one.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☒ No	☐ N/A	10.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	11. only received 1 set of trip blanks with was split for each project.
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#:92515544

PM: NMG Due Date: 01/14/21

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																7													
8																1													
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	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	
1	MW-57	WT	G	1/7/21	1255				8			X	X						X	X	X			92515544
2	MW-56				1155																			01
3	MW-53				1500																			02
4	MW-63				1520																			03
5	MW-54				1530																			04
6	MW-38				1635						(2)													05
7	FB-1-20210107				1650																			06
8	Trip Blank	—		LAB	Provided	—			2													X		07
9																								08
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			
	[signature]	1/7/21	1700	VSPACE HK	1/7/21	1730	1-6	Y	N	Y
	[signature]									

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Erik Riggel
SIGNATURE of SAMPLER: [signature]
DATE Signed: 1/7/21

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

January 13, 2021

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company

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

CERTIFICATIONS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

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 (1/7/21)
Pace Project No.: 92515548

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515548001	**MW-49**	MADEP VPH	JHH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515548002	**Trip Blank**	SM 6200B	PM1	63	PASI-C

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

Sample: MW-49 **Lab ID: 92515548001** Collected: 01/07/21 12:00 Received: 01/07/21 17:30 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	01/11/21 06:02	01/11/21 06:02		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/11/21 06:02	01/11/21 06:02		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/11/21 06:02	01/11/21 06:02	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/11/21 06:02	01/11/21 06:02	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.7	%	70.0-130	1	01/11/21 06:02	01/11/21 06:02	615-59-8FID	
2,5-Dibromotoluene (PID)	79.7	%	70.0-130	1	01/11/21 06:02	01/11/21 06:02	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**31.0**	ug/L	5.0	1	01/09/21 02:10	01/10/21 22:02	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 15:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 15:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 15:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 15:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 15:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 15:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 15:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 15:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 15:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 15:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 15:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 15:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 15:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 15:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 15:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 15:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 15:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 15:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 15:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 15:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 15:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 15:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 15:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 15:19	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 (1/7/21)
Pace Project No.: 92515548

Sample: MW-49 **Lab ID: 92515548001** Collected: 01/07/21 12:00 Received: 01/07/21 17:30 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		01/09/21 15:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 15:19	10061-02-6	
Diisopropyl ether	**7.0**	ug/L	0.50	1		01/09/21 15:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 15:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 15:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 15:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 15:19	75-09-2	
Methyl-tert-butyl ether	**2.9**	ug/L	0.50	1		01/09/21 15:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 15:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 15:19	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 15:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 15:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 15:19	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 15:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 15:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 15:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 15:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 15:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 15:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 15:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 15:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 15:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 15:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 15:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 15:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 15:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/09/21 15:19	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/09/21 15:19	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/09/21 15:19	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 (1/7/21)
Pace Project No.: 92515548

Sample: Trip Blank **Lab ID: 92515548002** Collected: 01/07/21 00:00 Received: 01/07/21 17:30 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		01/09/21 13:14	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 13:14	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 13:14	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 13:14	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 13:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 13:14	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 13:14	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 13:14	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 13:14	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 13:14	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 13:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 13:14	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 13:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 13:14	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 13:14	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 13:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 13:14	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 13:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 13:14	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 13:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 13:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 13:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 13:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 13:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 13:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 13:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 13:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 13:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 13:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 13:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 13:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 13:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/09/21 13:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 13:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 13:14	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 13:14	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 13:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 13:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 13:14	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 13:14	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 13:14	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 13:14	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 13:14	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 13:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 13:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 13:14	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 (1/7/21)
Pace Project No.: 92515548

Sample: Trip Blank **Lab ID: 92515548002** Collected: 01/07/21 00:00 Received: 01/07/21 17:30 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		01/09/21 13:14	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 13:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 13:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 13:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 13:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 13:14	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 13:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 13:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 13:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 13:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 13:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 13:14	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 13:14	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 13:14	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/09/21 13:14	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		01/09/21 13:14	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/09/21 13:14	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 (1/7/21)
Pace Project No.: 92515548

QC Batch: 1603522
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92515548001

METHOD BLANK: R3611370-3 Matrix: Water
Associated Lab Samples: 92515548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/11/21 01:01	
Aliphatic (C09-C12)	ug/L	ND	100	01/11/21 01:01	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/11/21 01:01	
Total VPH	ug/L	ND	100	01/11/21 01:01	
2,5-Dibromotoluene (FID)	%	90	70.0-130	01/11/21 01:01	
2,5-Dibromotoluene (PID)	%	76.6	70.0-130	01/11/21 01:01	

LABORATORY CONTROL SAMPLE & LCSD: R3611370-1 R3611370-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1360	1410	113	117	70.0-130	3.61	25	
Aliphatic (C09-C12)	ug/L	1400	1520	1560	109	111	70.0-130	2.60	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	187	185	93.5	92.5	70.0-130	1.08	25	
Total VPH	ug/L	2800	3070	3160	110	113	70.0-130	2.89	25	
2,5-Dibromotoluene (FID)	%				99.3	98.6	70.0-130			
2,5-Dibromotoluene (PID)	%				85.8	86.2	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

QC Batch: 591659
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515548001

METHOD BLANK: 3123879 Matrix: Water
Associated Lab Samples: 92515548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/10/21 21:19	

LABORATORY CONTROL SAMPLE: 3123880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	465	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3123881 3123882

Parameter	Units	92514480001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	430	432	86	86	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: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

QC Batch: 591710
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515548001, 92515548002

METHOD BLANK: 3124000 Matrix: Water
Associated Lab Samples: 92515548001, 92515548002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1-Dichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,1-Dichloroethene	ug/L	ND	0.50	01/09/21 11:28	
1,1-Dichloropropene	ug/L	ND	0.50	01/09/21 11:28	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/09/21 11:28	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/09/21 11:28	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/09/21 11:28	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/09/21 11:28	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dichloroethane	ug/L	ND	0.50	01/09/21 11:28	
1,2-Dichloropropane	ug/L	ND	0.50	01/09/21 11:28	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/09/21 11:28	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
1,3-Dichloropropane	ug/L	ND	0.50	01/09/21 11:28	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
2,2-Dichloropropane	ug/L	ND	0.50	01/09/21 11:28	
2-Chlorotoluene	ug/L	ND	0.50	01/09/21 11:28	
4-Chlorotoluene	ug/L	ND	0.50	01/09/21 11:28	
Benzene	ug/L	ND	0.50	01/09/21 11:28	
Bromobenzene	ug/L	ND	0.50	01/09/21 11:28	
Bromochloromethane	ug/L	ND	0.50	01/09/21 11:28	
Bromodichloromethane	ug/L	ND	0.50	01/09/21 11:28	
Bromoform	ug/L	ND	0.50	01/09/21 11:28	
Bromomethane	ug/L	ND	5.0	01/09/21 11:28	
Carbon tetrachloride	ug/L	ND	0.50	01/09/21 11:28	
Chlorobenzene	ug/L	ND	0.50	01/09/21 11:28	
Chloroethane	ug/L	ND	1.0	01/09/21 11:28	
Chloroform	ug/L	ND	0.50	01/09/21 11:28	
Chloromethane	ug/L	ND	1.0	01/09/21 11:28	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/09/21 11:28	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/09/21 11:28	
Dibromochloromethane	ug/L	ND	0.50	01/09/21 11:28	
Dibromomethane	ug/L	ND	0.50	01/09/21 11:28	
Dichlorodifluoromethane	ug/L	ND	0.50	01/09/21 11:28	
Diisopropyl ether	ug/L	ND	0.50	01/09/21 11:28	

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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 (1/7/21)
Pace Project No.: 92515548

METHOD BLANK: 3124000 Matrix: Water
Associated Lab Samples: 92515548001, 92515548002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/09/21 11:28	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/09/21 11:28	
m&p-Xylene	ug/L	ND	1.0	01/09/21 11:28	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/09/21 11:28	
Methylene Chloride	ug/L	ND	2.0	01/09/21 11:28	
n-Butylbenzene	ug/L	ND	0.50	01/09/21 11:28	
n-Propylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Naphthalene	ug/L	ND	2.0	01/09/21 11:28	
o-Xylene	ug/L	ND	0.50	01/09/21 11:28	
sec-Butylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Styrene	ug/L	ND	0.50	01/09/21 11:28	
tert-Butylbenzene	ug/L	ND	0.50	01/09/21 11:28	
Tetrachloroethene	ug/L	ND	0.50	01/09/21 11:28	
Toluene	ug/L	ND	0.50	01/09/21 11:28	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/09/21 11:28	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/09/21 11:28	
Trichloroethene	ug/L	ND	0.50	01/09/21 11:28	
Trichlorofluoromethane	ug/L	ND	1.0	01/09/21 11:28	
Vinyl chloride	ug/L	ND	1.0	01/09/21 11:28	
1,2-Dichloroethane-d4 (S)	%	100	70-130	01/09/21 11:28	
4-Bromofluorobenzene (S)	%	102	70-130	01/09/21 11:28	
Toluene-d8 (S)	%	102	70-130	01/09/21 11:28	

LABORATORY CONTROL SAMPLE: 3124001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.7	109	60-140	
1,1,1-Trichloroethane	ug/L	50	52.4	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	60-140	
1,1,2-Trichloroethane	ug/L	50	53.8	108	60-140	
1,1-Dichloroethane	ug/L	50	52.2	104	60-140	
1,1-Dichloroethene	ug/L	50	52.6	105	60-140	
1,1-Dichloropropene	ug/L	50	51.4	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	49.9	100	60-140	
1,2,3-Trichloropropane	ug/L	50	48.7	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.4	109	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	51.3	103	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	51.4	103	60-140	
1,2-Dichloroethane	ug/L	50	50.5	101	60-140	
1,2-Dichloropropane	ug/L	50	52.1	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.8	104	60-140	

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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 (1/7/21)
Pace Project No.: 92515548

LABORATORY CONTROL SAMPLE: 3124001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.5	103	60-140	
1,3-Dichloropropane	ug/L	50	52.2	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	60-140	
2,2-Dichloropropane	ug/L	50	54.3	109	60-140	
2-Chlorotoluene	ug/L	50	52.0	104	60-140	
4-Chlorotoluene	ug/L	50	52.1	104	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	50.0	100	60-140	
Bromochloromethane	ug/L	50	52.5	105	60-140	
Bromodichloromethane	ug/L	50	52.4	105	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	42.6	85	60-140	
Carbon tetrachloride	ug/L	50	53.1	106	60-140	
Chlorobenzene	ug/L	50	50.0	100	60-140	
Chloroethane	ug/L	50	43.6	87	60-140	
Chloroform	ug/L	50	50.3	101	60-140	
Chloromethane	ug/L	50	36.8	74	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.4	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.3	115	60-140	
Dibromochloromethane	ug/L	50	53.2	106	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	36.9	74	60-140	
Diisopropyl ether	ug/L	50	53.4	107	60-140	
Ethylbenzene	ug/L	50	49.3	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.3	105	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	60-140	
m&p-Xylene	ug/L	100	98.5	99	60-140	
Methyl-tert-butyl ether	ug/L	50	54.6	109	60-140	
Methylene Chloride	ug/L	50	47.6	95	60-140	
n-Butylbenzene	ug/L	50	54.6	109	60-140	
n-Propylbenzene	ug/L	50	51.7	103	60-140	
Naphthalene	ug/L	50	51.8	104	60-140	
o-Xylene	ug/L	50	49.3	99	60-140	
sec-Butylbenzene	ug/L	50	51.6	103	60-140	
Styrene	ug/L	50	50.4	101	60-140	
tert-Butylbenzene	ug/L	50	42.5	85	60-140	
Tetrachloroethene	ug/L	50	50.0	100	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	50.8	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	60-140	
Trichloroethene	ug/L	50	52.8	106	60-140	
Trichlorofluoromethane	ug/L	50	44.9	90	60-140	
Vinyl chloride	ug/L	50	40.0	80	60-140	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

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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 (1/7/21)
Pace Project No.: 92515548

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124002 3124003

Parameter	Units	92515544003 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	22.5	23.3	112	116	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.2	20.1	96	100	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.9	23.3	109	116	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.6	22.8	108	114	60-140	6	
1,1-Dichloroethane	ug/L	ND	20	20	18.3	18.8	91	94	60-140	3	
1,1-Dichloroethene	ug/L	ND	20	20	15.8	16.2	79	81	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	19.7	20.3	99	102	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.2	22.8	106	114	60-140	8	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.8	22.3	109	112	60-140	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.8	23.2	109	116	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.5	23.6	113	118	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.8	24.8	114	124	60-140	8	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.9	23.1	110	115	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.4	22.7	107	113	60-140	6	
1,2-Dichloroethane	ug/L	ND	20	20	19.9	20.5	99	103	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	20.5	21.6	102	108	60-140	5	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	24.4	116	122	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.6	23.6	113	118	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	22.0	22.9	110	115	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.3	22.2	107	111	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	19.3	19.7	97	98	60-140	2	
2-Chlorotoluene	ug/L	ND	20	20	22.1	23.0	110	115	60-140	4	
4-Chlorotoluene	ug/L	ND	20	20	22.2	23.7	111	119	60-140	6	
Benzene	ug/L	ND	20	20	18.4	18.8	92	94	60-140	2	
Bromobenzene	ug/L	ND	20	20	21.9	22.9	109	114	60-140	4	
Bromochloromethane	ug/L	ND	20	20	19.9	20.6	99	103	60-140	4	
Bromodichloromethane	ug/L	ND	20	20	19.9	20.9	100	105	60-140	5	
Bromoform	ug/L	ND	20	20	22.1	22.9	110	114	60-140	3	
Bromomethane	ug/L	ND	20	20	7.3	7.4	36	37	60-140	2	M1
Carbon tetrachloride	ug/L	ND	20	20	19.4	19.8	97	99	60-140	2	
Chlorobenzene	ug/L	ND	20	20	21.3	22.3	106	111	60-140	5	
Chloroethane	ug/L	ND	20	20	11.1	11.2	56	56	60-140	0	M1
Chloroform	ug/L	0.97	20	20	20.5	20.9	97	100	60-140	2	
Chloromethane	ug/L	ND	20	20	2.8	3.1	14	16	60-140	13	M1
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.9	19.1	95	96	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.3	23.0	112	115	60-140	3	
Dibromochloromethane	ug/L	ND	20	20	23.1	24.1	116	120	60-140	4	
Dibromomethane	ug/L	ND	20	20	21.3	22.0	106	110	60-140	3	
Dichlorodifluoromethane	ug/L	ND	20	20	0.71	0.71	4	4	60-140	1	M1
Diisopropyl ether	ug/L	ND	20	20	19.3	19.8	96	99	60-140	2	
Ethylbenzene	ug/L	ND	20	20	22.2	23.2	111	116	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.5	25.4	117	127	60-140	8	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.7	23.6	114	118	60-140	4	
m&p-Xylene	ug/L	ND	40	40	45.1	47.5	113	119	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	19.4	94	97	60-140	4	
Methylene Chloride	ug/L	ND	20	20	17.6	18.1	88	90	60-140	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124002 3124003

Parameter	Units	92515544003 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	22.5	24.0	113	120	60-140	6	
n-Propylbenzene	ug/L	ND	20	20	23.3	24.6	116	123	60-140	5	
Naphthalene	ug/L	ND	20	20	20.7	22.7	103	113	60-140	9	
o-Xylene	ug/L	ND	20	20	21.1	22.0	106	110	60-140	4	
sec-Butylbenzene	ug/L	ND	20	20	23.6	24.8	118	124	60-140	5	
Styrene	ug/L	ND	20	20	22.1	23.0	110	115	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	19.8	20.7	99	103	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	20.5	21.5	102	107	60-140	5	
Toluene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.9	18.5	90	92	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.1	23.0	111	115	60-140	4	
Trichloroethene	ug/L	ND	20	20	20.3	21.4	101	107	60-140	5	
Trichlorofluoromethane	ug/L	ND	20	20	12.5	12.6	62	63	60-140	1	
Vinyl chloride	ug/L	ND	20	20	5.6	5.7	28	29	60-140	1	M1
1,2-Dichloroethane-d4 (S)	%						104	103	70-130		
4-Bromofluorobenzene (S)	%						99	99	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALIFIERS

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

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
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline (1/7/21)
Pace Project No.: 92515548

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515548001	**MW-49**	MADEPV	1603522	MADEP VPH	1603522
92515548001	**MW-49**	EPA 3010A	591659	EPA 6010D	591682
92515548001	**MW-49**	SM 6200B	591710		
92515548002	**Trip Blank**	SM 6200B	591710		

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: AECOM

Project #: WO# : 92515548

92515548

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 1/8/21 IO

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: 1.7 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.6

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☒ 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. Only recived 1 set of trip blanks with was split for each project.
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# : 92515548**

PM: NMG Due Date: 01/14/21

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													
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	6010 Lead	Trip BLANK	Residual Chlorine (Y/N)	92515548
1	MW-49	WT	G	1/7/21	1200				8			X	X						X	X	X			001
2	Trip Blank	—	—	Lab	Provided	—	—		2													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
		1/7/20	1760	VS PACE HK	1/7/21	1730

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Erik Riegel
SIGNATURE of SAMPLER:
DATE Signed: 1/7/21

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

January 13, 2021

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

RE: Project: 2020-L1-2448-Revised Report
Pace Project No.: 92515642

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

A revised report is being submitted on 1/13/21 because the VPH data did not merge correctly from the interregional laboratory.

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
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-Revised Report
Pace Project No.: 92515642

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-Revised Report
Pace Project No.: 92515642

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515543003	**MW-65D (115-150)**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

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

ANALYTICAL RESULTS

Project: 2020-L1-2448-Revised Report
Pace Project No.: 92515642

Sample: MW-65D (115-150) **Lab ID: 92515543003** Collected: 01/07/21 12:30 Received: 01/07/21 17:45 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	01/09/21 23:03	01/09/21 23:03		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 23:03	01/09/21 23:03		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 23:03	01/09/21 23:03	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 23:03	01/09/21 23:03	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	1	01/09/21 23:03	01/09/21 23:03	615-59-8FID	
2,5-Dibromotoluene (PID)	83.5	%	70.0-130	1	01/09/21 23:03	01/09/21 23:03	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	01/09/21 02:10	01/09/21 14:29	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 00:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 00:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 00:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 00:27	75-27-4	M1
Bromoform	ND	ug/L	0.50	1		01/09/21 00:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 00:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 00:27	98-06-6	M1
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 00:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 00:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 00:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 00:27	67-66-3	R1
Chloromethane	ND	ug/L	1.0	1		01/09/21 00:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 00:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 00:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 00:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 00:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 00:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 00:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 00:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 00:27	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 00:27	75-34-3	R1
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 00:27	107-06-2	R1
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:27	75-35-4	R1
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 00:27	156-60-5	R1
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 00:27	594-20-7	R1

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-Revised Report
Pace Project No.: 92515642

Sample: MW-65D (115-150) **Lab ID: 92515543003** Collected: 01/07/21 12:30 Received: 01/07/21 17:45 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		01/09/21 00:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 00:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 00:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 00:27	108-20-3	R1
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 00:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 00:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 00:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 00:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 00:27	1634-04-4	R1
Naphthalene	ND	ug/L	2.0	1		01/09/21 00:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 00:27	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 00:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 00:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 00:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 00:27	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 00:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 00:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 00:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 00:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 00:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 00:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 00:27	75-69-4	R1
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 00:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 00:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 00:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 00:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 00:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 00:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/09/21 00:27	17060-07-0	
4-Bromofluorobenzene (S)	108	%	70-130	1		01/09/21 00:27	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/09/21 00:27	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-Revised Report
Pace Project No.: 92515642

QC Batch: 1603010
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515543003

METHOD BLANK: R3611200-3 Matrix: Water
Associated Lab Samples: 92515543003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 20:50	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 20:50	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 20:50	
Total VPH	ug/L	ND	100	01/09/21 20:50	
2,5-Dibromotoluene (FID)	%	88.2	70.0-130	01/09/21 20:50	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 20:50	

LABORATORY CONTROL SAMPLE & LCSD: R3611200-1 R3611200-2

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	1030	86.7	85.8	70.0-130	0.966	25	
Aliphatic (C09-C12)	ug/L	1400	1490	1450	106	104	70.0-130	2.72	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	184	93.0	92.0	70.0-130	1.08	25	
Total VPH	ug/L	2800	2720	2660	97.1	95.0	70.0-130	2.23	25	
2,5-Dibromotoluene (FID)	%				96.7	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.2	85.0	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-Revised Report
Pace Project No.: 92515642

QC Batch: 591657
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515543003

METHOD BLANK: 3123871 Matrix: Water
Associated Lab Samples: 92515543003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/09/21 14:00	

LABORATORY CONTROL SAMPLE: 3123872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3123873 3123874

Parameter	Units	92515543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	21.3	500	500	470	469	90	90	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: 2020-L1-2448-Revised Report
Pace Project No.: 92515642

QC Batch: 591592
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515543003

METHOD BLANK: 3123278 Matrix: Water
Associated Lab Samples: 92515543003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/08/21 23:16	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/08/21 23:16	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/08/21 23:16	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
1,3-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
2,2-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
2-Chlorotoluene	ug/L	ND	0.50	01/08/21 23:16	
4-Chlorotoluene	ug/L	ND	0.50	01/08/21 23:16	
Benzene	ug/L	ND	0.50	01/08/21 23:16	
Bromobenzene	ug/L	ND	0.50	01/08/21 23:16	
Bromochloromethane	ug/L	ND	0.50	01/08/21 23:16	
Bromodichloromethane	ug/L	ND	0.50	01/08/21 23:16	
Bromoform	ug/L	ND	0.50	01/08/21 23:16	
Bromomethane	ug/L	ND	5.0	01/08/21 23:16	
Carbon tetrachloride	ug/L	ND	0.50	01/08/21 23:16	
Chlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
Chloroethane	ug/L	ND	1.0	01/08/21 23:16	
Chloroform	ug/L	ND	0.50	01/08/21 23:16	
Chloromethane	ug/L	ND	1.0	01/08/21 23:16	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
Dibromochloromethane	ug/L	ND	0.50	01/08/21 23:16	
Dibromomethane	ug/L	ND	0.50	01/08/21 23:16	
Dichlorodifluoromethane	ug/L	ND	0.50	01/08/21 23:16	
Diisopropyl ether	ug/L	ND	0.50	01/08/21 23:16	

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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-Revised Report
Pace Project No.: 92515642

METHOD BLANK: 3123278 Matrix: Water
Associated Lab Samples: 92515543003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/08/21 23:16	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/08/21 23:16	
m&p-Xylene	ug/L	ND	1.0	01/08/21 23:16	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/08/21 23:16	
Methylene Chloride	ug/L	ND	2.0	01/08/21 23:16	
n-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
n-Propylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Naphthalene	ug/L	ND	2.0	01/08/21 23:16	
o-Xylene	ug/L	ND	0.50	01/08/21 23:16	
sec-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Styrene	ug/L	ND	0.50	01/08/21 23:16	
tert-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Tetrachloroethene	ug/L	ND	0.50	01/08/21 23:16	
Toluene	ug/L	ND	0.50	01/08/21 23:16	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
Trichloroethene	ug/L	ND	0.50	01/08/21 23:16	
Trichlorofluoromethane	ug/L	ND	1.0	01/08/21 23:16	
Vinyl chloride	ug/L	ND	1.0	01/08/21 23:16	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/08/21 23:16	
4-Bromofluorobenzene (S)	%	107	70-130	01/08/21 23:16	
Toluene-d8 (S)	%	102	70-130	01/08/21 23:16	

LABORATORY CONTROL SAMPLE: 3123279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.6	115	60-140	
1,1,1-Trichloroethane	ug/L	50	54.5	109	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	60-140	
1,1,2-Trichloroethane	ug/L	50	55.9	112	60-140	
1,1-Dichloroethane	ug/L	50	53.9	108	60-140	
1,1-Dichloroethene	ug/L	50	56.4	113	60-140	
1,1-Dichloropropene	ug/L	50	53.6	107	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.7	103	60-140	
1,2,3-Trichloropropane	ug/L	50	54.3	109	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.5	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.5	109	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.9	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.4	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	53.0	106	60-140	
1,2-Dichloropropane	ug/L	50	54.0	108	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.5	107	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448-Revised Report
Pace Project No.: 92515642

LABORATORY CONTROL SAMPLE: 3123279

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	56.0	112	60-140	
1,4-Dichlorobenzene	ug/L	50	51.5	103	60-140	
2,2-Dichloropropane	ug/L	50	54.5	109	60-140	
2-Chlorotoluene	ug/L	50	52.6	105	60-140	
4-Chlorotoluene	ug/L	50	53.0	106	60-140	
Benzene	ug/L	50	53.0	106	60-140	
Bromobenzene	ug/L	50	51.8	104	60-140	
Bromochloromethane	ug/L	50	56.3	113	60-140	
Bromodichloromethane	ug/L	50	55.1	110	60-140	
Bromoform	ug/L	50	58.5	117	60-140	
Bromomethane	ug/L	50	48.9	98	60-140	
Carbon tetrachloride	ug/L	50	56.7	113	60-140	
Chlorobenzene	ug/L	50	53.6	107	60-140	
Chloroethane	ug/L	50	46.5	93	60-140	
Chloroform	ug/L	50	51.5	103	60-140	
Chloromethane	ug/L	50	44.1	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.7	105	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.8	116	60-140	
Dibromochloromethane	ug/L	50	59.3	119	60-140	
Dibromomethane	ug/L	50	55.5	111	60-140	
Dichlorodifluoromethane	ug/L	50	42.2	84	60-140	
Diisopropyl ether	ug/L	50	54.2	108	60-140	
Ethylbenzene	ug/L	50	51.3	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	51.5	103	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.9	106	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	56.2	112	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.3	109	60-140	
n-Propylbenzene	ug/L	50	51.6	103	60-140	
Naphthalene	ug/L	50	54.8	110	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	52.5	105	60-140	
Styrene	ug/L	50	53.1	106	60-140	
tert-Butylbenzene	ug/L	50	43.8	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	52.3	105	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.6	107	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.7	119	60-140	
Trichloroethene	ug/L	50	55.2	110	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	44.2	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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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-Revised Report
Pace Project No.: 92515642

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124129 3124130

Parameter	Units	92515543003 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	12.8	17.0	64	85	60-140	28	
1,1,1-Trichloroethane	ug/L	ND	20	20	13.0	17.7	65	89	60-140	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	12.9	16.5	64	83	60-140	25	
1,1,2-Trichloroethane	ug/L	ND	20	20	12.5	16.7	62	83	60-140	29	
1,1-Dichloroethane	ug/L	ND	20	20	13.0	17.9	65	89	60-140	31	R1
1,1-Dichloroethene	ug/L	ND	20	20	14.4	19.7	72	99	60-140	31	R1
1,1-Dichloropropene	ug/L	ND	20	20	15.0	19.5	75	98	60-140	26	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.1	17.1	80	85	60-140	6	
1,2,3-Trichloropropane	ug/L	ND	20	20	12.7	16.9	64	84	60-140	28	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.6	17.3	78	86	60-140	10	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	13.3	17.4	66	87	60-140	27	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.7	18.0	74	90	60-140	20	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	13.2	17.4	66	87	60-140	27	
1,2-Dichlorobenzene	ug/L	ND	20	20	12.5	16.1	63	81	60-140	25	
1,2-Dichloroethane	ug/L	ND	20	20	12.8	17.7	64	89	60-140	32	R1
1,2-Dichloropropane	ug/L	ND	20	20	12.7	17.2	63	86	60-140	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	13.6	18.1	68	90	60-140	28	
1,3-Dichlorobenzene	ug/L	ND	20	20	13.3	17.1	67	85	60-140	25	
1,3-Dichloropropane	ug/L	ND	20	20	13.1	17.0	65	85	60-140	26	
1,4-Dichlorobenzene	ug/L	ND	20	20	12.4	16.1	62	81	60-140	26	
2,2-Dichloropropane	ug/L	ND	20	20	14.5	20.3	73	102	60-140	33	R1
2-Chlorotoluene	ug/L	ND	20	20	12.9	16.7	64	84	60-140	26	
4-Chlorotoluene	ug/L	ND	20	20	13.1	17.2	66	86	60-140	27	
Benzene	ug/L	ND	20	20	12.2	15.9	61	80	60-140	27	
Bromobenzene	ug/L	ND	20	20	12.3	16.2	61	81	60-140	28	
Bromochloromethane	ug/L	ND	20	20	13.2	17.5	66	88	60-140	28	
Bromodichloromethane	ug/L	ND	20	20	11.8	15.9	59	79	60-140	29	M1
Bromoform	ug/L	ND	20	20	12.8	17.0	64	85	60-140	28	
Bromomethane	ug/L	ND	20	20	13.4	17.7	67	89	60-140	28	
Carbon tetrachloride	ug/L	ND	20	20	12.9	17.2	65	86	60-140	28	
Chlorobenzene	ug/L	ND	20	20	12.7	16.5	64	82	60-140	26	
Chloroethane	ug/L	ND	20	20	13.8	18.4	69	92	60-140	29	
Chloroform	ug/L	ND	20	20	12.4	17.1	62	85	60-140	32	R1
Chloromethane	ug/L	ND	20	20	12.8	15.8	64	79	60-140	21	
cis-1,2-Dichloroethene	ug/L	ND	20	20	13.0	17.6	65	88	60-140	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	13.4	17.9	67	90	60-140	29	
Dibromochloromethane	ug/L	ND	20	20	13.4	17.9	67	90	60-140	29	
Dibromomethane	ug/L	ND	20	20	12.6	16.6	63	83	60-140	28	
Dichlorodifluoromethane	ug/L	ND	20	20	11.7	15.9	59	79	60-140	30	M1
Diisopropyl ether	ug/L	ND	20	20	12.1	17.0	60	85	60-140	34	R1
Ethylbenzene	ug/L	ND	20	20	13.2	17.4	66	87	60-140	27	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.0	20.0	85	100	60-140	16	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	13.3	17.5	67	87	60-140	27	
m&p-Xylene	ug/L	ND	40	40	27.1	35.3	68	88	60-140	26	
Methyl-tert-butyl ether	ug/L	ND	20	20	12.0	16.7	60	83	60-140	32	R1
Methylene Chloride	ug/L	ND	20	20	13.5	18.0	68	90	60-140	29	

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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-Revised Report
Pace Project No.: 92515642

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124129 3124130

Parameter	Units	92515543003 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	14.4	18.4	72	92	60-140	24	
n-Propylbenzene	ug/L	ND	20	20	13.9	18.3	69	91	60-140	27	
Naphthalene	ug/L	ND	20	20	15.5	16.5	77	83	60-140	6	
o-Xylene	ug/L	ND	20	20	12.4	16.2	62	81	60-140	27	
sec-Butylbenzene	ug/L	ND	20	20	14.1	18.3	71	91	60-140	26	
Styrene	ug/L	ND	20	20	12.8	16.7	64	83	60-140	26	
tert-Butylbenzene	ug/L	ND	20	20	11.4	15.0	57	75	60-140	27	M1
Tetrachloroethene	ug/L	ND	20	20	12.9	17.0	64	85	60-140	28	
Toluene	ug/L	ND	20	20	12.8	16.9	64	84	60-140	27	
trans-1,2-Dichloroethene	ug/L	ND	20	20	13.7	19.1	69	96	60-140	33	R1
trans-1,3-Dichloropropene	ug/L	ND	20	20	13.3	17.4	67	87	60-140	27	
Trichloroethene	ug/L	ND	20	20	13.0	16.9	65	84	60-140	26	
Trichlorofluoromethane	ug/L	ND	20	20	13.1	18.1	65	90	60-140	32	R1
Vinyl chloride	ug/L	ND	20	20	12.5	16.9	63	85	60-140	30	
1,2-Dichloroethane-d4 (S)	%						106	109	70-130		
4-Bromofluorobenzene (S)	%						99	99	70-130		
Toluene-d8 (S)	%						100	99	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-L1-2448-Revised Report
Pace Project No.: 92515642

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
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448-Revised Report
Pace Project No.: 92515642

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515543003	**MW-65D (115-150)**	MADEPV	1603010	MADEP VPH	1603010
92515543003	**MW-65D (115-150)**	EPA 3010A	591657	EPA 6010D	591685
92515543003	**MW-65D (115-150)**	SM 6200B	591592		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92515642

92515642

Company: APEX COMPANIES
Billing Information: ANDREW.STREET@APEXCOS.COM
Address: 5900 NORTHWOODS BUSINESS PKWY CHARLOTTE NC
Report To: ANDREW.STREET@APEXCOS.COM
Email To:
Copy To:
Site Collection Info/Address:
Customer Project Name/Number: CPC20126
State: NC / County/City: MECKLENBURG / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET

Phone:
Email:
Site/Facility ID #: COLONIAL PIPELINE HUNTERSVILLE
Compliance Monitoring? [ ] Yes [✓] No

Collected By (print): Tom Naumann
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:

Collected By (signature):
Turnaround Date Required: STANDARD
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: 3 | 3 | 1

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCS 6200	VPH	LEAD	Lab Sample # / Comments
EB-1-20210107	GW	G	1/7/21	1000					X	X	X	001
FB-1-20210107	↓	↓		1015					X	X	X	002
MW-65D (115-150)				1230					X	X	X	003
DUP-1-20210107				1245					X	X	X	004
MW-62D (125-143)				1630					X	X	X	005
TRIP BLANK									X			006

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: 92515543

only samples 003 and 005 logged on this WO

Customer Remarks / Special Conditions / Possible Hazards:

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

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2561067
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: 1.3 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Tom Naumann / APEX	1/7/21 1745	[signature] PACE	1/7/21 1745

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

January 13, 2021

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

RE: Project: 2020-L1-2448
Pace Project No.: 92515858

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

A revised report is being submitted on 1/13/21 to report the VPH data. It did not merge correctly from the interregional laboratory.

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
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
Pace Project No.: 92515858

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
Pace Project No.: 92515858

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515543005	**MW-62D (125-143)**	MADEP VPH	JHH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

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

ANALYTICAL RESULTS

Project: 2020-L1-2448
Pace Project No.: 92515858

Sample: MW-62D (125-143) **Lab ID: 92515543005** Collected: 01/07/21 16:30 Received: 01/07/21 17:45 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	01/09/21 23:37	01/09/21 23:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/09/21 23:37	01/09/21 23:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/09/21 23:37	01/09/21 23:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/09/21 23:37	01/09/21 23:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.1	%	70.0-130	1	01/09/21 23:37	01/09/21 23:37	615-59-8FID	
2,5-Dibromotoluene (PID)	82.3	%	70.0-130	1	01/09/21 23:37	01/09/21 23:37	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	01/09/21 02:10	01/09/21 14:35	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/09/21 01:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/09/21 01:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/09/21 01:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/09/21 01:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/09/21 01:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/21 01:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/09/21 01:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/09/21 01:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/09/21 01:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/09/21 01:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/09/21 01:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/21 01:02	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/09/21 01:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/21 01:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 01:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/09/21 01:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/09/21 01:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/09/21 01:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/09/21 01:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/09/21 01:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 01:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 01:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/09/21 01:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/09/21 01:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/09/21 01:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/09/21 01:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/09/21 01:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 01:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/09/21 01:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 01:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/09/21 01:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/09/21 01:02	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
Pace Project No.: 92515858

Sample: MW-62D (125-143) **Lab ID: 92515543005** Collected: 01/07/21 16:30 Received: 01/07/21 17:45 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		01/09/21 01:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 01:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/09/21 01:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/09/21 01:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/09/21 01:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/09/21 01:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/09/21 01:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/09/21 01:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/09/21 01:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/09/21 01:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/09/21 01:02	103-65-1	
Styrene	ND	ug/L	0.50	1		01/09/21 01:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 01:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/09/21 01:02	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/09/21 01:02	127-18-4	
Toluene	ND	ug/L	0.50	1		01/09/21 01:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 01:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/09/21 01:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/09/21 01:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/09/21 01:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/09/21 01:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/21 01:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/09/21 01:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 01:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/09/21 01:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/09/21 01:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/09/21 01:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/09/21 01:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/09/21 01:02	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/09/21 01:02	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/09/21 01:02	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
Pace Project No.: 92515858

QC Batch: 1603010
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92515543005

METHOD BLANK: R3611200-3 Matrix: Water
Associated Lab Samples: 92515543005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/09/21 20:50	
Aliphatic (C09-C12)	ug/L	ND	100	01/09/21 20:50	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/09/21 20:50	
Total VPH	ug/L	ND	100	01/09/21 20:50	
2,5-Dibromotoluene (FID)	%	88.2	70.0-130	01/09/21 20:50	
2,5-Dibromotoluene (PID)	%	78	70.0-130	01/09/21 20:50	

LABORATORY CONTROL SAMPLE & LCSD: R3611200-1 R3611200-2

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	1030	86.7	85.8	70.0-130	0.966	25	
Aliphatic (C09-C12)	ug/L	1400	1490	1450	106	104	70.0-130	2.72	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	186	184	93.0	92.0	70.0-130	1.08	25	
Total VPH	ug/L	2800	2720	2660	97.1	95.0	70.0-130	2.23	25	
2,5-Dibromotoluene (FID)	%				96.7	93.8	70.0-130			
2,5-Dibromotoluene (PID)	%				86.2	85.0	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
Pace Project No.: 92515858

QC Batch: 591657
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92515543005

METHOD BLANK: 3123871 Matrix: Water
Associated Lab Samples: 92515543005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/09/21 14:00	

LABORATORY CONTROL SAMPLE: 3123872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3123873 3123874

Parameter	Units	92515543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	21.3	500	500	470	469	90	90	75-125	0	

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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
Pace Project No.: 92515858

QC Batch: 591592
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515543005

METHOD BLANK: 3123278 Matrix: Water
Associated Lab Samples: 92515543005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
1,1-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/08/21 23:16	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/08/21 23:16	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/08/21 23:16	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichloroethane	ug/L	ND	0.50	01/08/21 23:16	
1,2-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
1,3-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
2,2-Dichloropropane	ug/L	ND	0.50	01/08/21 23:16	
2-Chlorotoluene	ug/L	ND	0.50	01/08/21 23:16	
4-Chlorotoluene	ug/L	ND	0.50	01/08/21 23:16	
Benzene	ug/L	ND	0.50	01/08/21 23:16	
Bromobenzene	ug/L	ND	0.50	01/08/21 23:16	
Bromochloromethane	ug/L	ND	0.50	01/08/21 23:16	
Bromodichloromethane	ug/L	ND	0.50	01/08/21 23:16	
Bromoform	ug/L	ND	0.50	01/08/21 23:16	
Bromomethane	ug/L	ND	5.0	01/08/21 23:16	
Carbon tetrachloride	ug/L	ND	0.50	01/08/21 23:16	
Chlorobenzene	ug/L	ND	0.50	01/08/21 23:16	
Chloroethane	ug/L	ND	1.0	01/08/21 23:16	
Chloroform	ug/L	ND	0.50	01/08/21 23:16	
Chloromethane	ug/L	ND	1.0	01/08/21 23:16	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
Dibromochloromethane	ug/L	ND	0.50	01/08/21 23:16	
Dibromomethane	ug/L	ND	0.50	01/08/21 23:16	
Dichlorodifluoromethane	ug/L	ND	0.50	01/08/21 23:16	
Diisopropyl ether	ug/L	ND	0.50	01/08/21 23:16	

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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
Pace Project No.: 92515858

METHOD BLANK: 3123278 Matrix: Water
Associated Lab Samples: 92515543005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/08/21 23:16	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/08/21 23:16	
m&p-Xylene	ug/L	ND	1.0	01/08/21 23:16	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/08/21 23:16	
Methylene Chloride	ug/L	ND	2.0	01/08/21 23:16	
n-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
n-Propylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Naphthalene	ug/L	ND	2.0	01/08/21 23:16	
o-Xylene	ug/L	ND	0.50	01/08/21 23:16	
sec-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Styrene	ug/L	ND	0.50	01/08/21 23:16	
tert-Butylbenzene	ug/L	ND	0.50	01/08/21 23:16	
Tetrachloroethene	ug/L	ND	0.50	01/08/21 23:16	
Toluene	ug/L	ND	0.50	01/08/21 23:16	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/08/21 23:16	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/08/21 23:16	
Trichloroethene	ug/L	ND	0.50	01/08/21 23:16	
Trichlorofluoromethane	ug/L	ND	1.0	01/08/21 23:16	
Vinyl chloride	ug/L	ND	1.0	01/08/21 23:16	
1,2-Dichloroethane-d4 (S)	%	99	70-130	01/08/21 23:16	
4-Bromofluorobenzene (S)	%	107	70-130	01/08/21 23:16	
Toluene-d8 (S)	%	102	70-130	01/08/21 23:16	

LABORATORY CONTROL SAMPLE: 3123279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.6	115	60-140	
1,1,1-Trichloroethane	ug/L	50	54.5	109	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	60-140	
1,1,2-Trichloroethane	ug/L	50	55.9	112	60-140	
1,1-Dichloroethane	ug/L	50	53.9	108	60-140	
1,1-Dichloroethene	ug/L	50	56.4	113	60-140	
1,1-Dichloropropene	ug/L	50	53.6	107	60-140	
1,2,3-Trichlorobenzene	ug/L	50	51.7	103	60-140	
1,2,3-Trichloropropane	ug/L	50	54.3	109	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.5	105	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.5	109	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.9	106	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.4	111	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	53.0	106	60-140	
1,2-Dichloropropane	ug/L	50	54.0	108	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.5	107	60-140	

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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
Pace Project No.: 92515858

LABORATORY CONTROL SAMPLE: 3123279

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	56.0	112	60-140	
1,4-Dichlorobenzene	ug/L	50	51.5	103	60-140	
2,2-Dichloropropane	ug/L	50	54.5	109	60-140	
2-Chlorotoluene	ug/L	50	52.6	105	60-140	
4-Chlorotoluene	ug/L	50	53.0	106	60-140	
Benzene	ug/L	50	53.0	106	60-140	
Bromobenzene	ug/L	50	51.8	104	60-140	
Bromochloromethane	ug/L	50	56.3	113	60-140	
Bromodichloromethane	ug/L	50	55.1	110	60-140	
Bromoform	ug/L	50	58.5	117	60-140	
Bromomethane	ug/L	50	48.9	98	60-140	
Carbon tetrachloride	ug/L	50	56.7	113	60-140	
Chlorobenzene	ug/L	50	53.6	107	60-140	
Chloroethane	ug/L	50	46.5	93	60-140	
Chloroform	ug/L	50	51.5	103	60-140	
Chloromethane	ug/L	50	44.1	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.7	105	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.8	116	60-140	
Dibromochloromethane	ug/L	50	59.3	119	60-140	
Dibromomethane	ug/L	50	55.5	111	60-140	
Dichlorodifluoromethane	ug/L	50	42.2	84	60-140	
Diisopropyl ether	ug/L	50	54.2	108	60-140	
Ethylbenzene	ug/L	50	51.3	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	51.5	103	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.9	106	60-140	
m&p-Xylene	ug/L	100	103	103	60-140	
Methyl-tert-butyl ether	ug/L	50	56.2	112	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.3	109	60-140	
n-Propylbenzene	ug/L	50	51.6	103	60-140	
Naphthalene	ug/L	50	54.8	110	60-140	
o-Xylene	ug/L	50	52.8	106	60-140	
sec-Butylbenzene	ug/L	50	52.5	105	60-140	
Styrene	ug/L	50	53.1	106	60-140	
tert-Butylbenzene	ug/L	50	43.8	88	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	52.3	105	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.6	107	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.7	119	60-140	
Trichloroethene	ug/L	50	55.2	110	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	44.2	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	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-L1-2448
Pace Project No.: 92515858

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124129 3124130

Parameter	Units	92515543003 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	12.8	17.0	64	85	60-140	28	
1,1,1-Trichloroethane	ug/L	ND	20	20	13.0	17.7	65	89	60-140	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	12.9	16.5	64	83	60-140	25	
1,1,2-Trichloroethane	ug/L	ND	20	20	12.5	16.7	62	83	60-140	29	
1,1-Dichloroethane	ug/L	ND	20	20	13.0	17.9	65	89	60-140	31	R1
1,1-Dichloroethene	ug/L	ND	20	20	14.4	19.7	72	99	60-140	31	R1
1,1-Dichloropropene	ug/L	ND	20	20	15.0	19.5	75	98	60-140	26	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.1	17.1	80	85	60-140	6	
1,2,3-Trichloropropane	ug/L	ND	20	20	12.7	16.9	64	84	60-140	28	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.6	17.3	78	86	60-140	10	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	13.3	17.4	66	87	60-140	27	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.7	18.0	74	90	60-140	20	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	13.2	17.4	66	87	60-140	27	
1,2-Dichlorobenzene	ug/L	ND	20	20	12.5	16.1	63	81	60-140	25	
1,2-Dichloroethane	ug/L	ND	20	20	12.8	17.7	64	89	60-140	32	R1
1,2-Dichloropropane	ug/L	ND	20	20	12.7	17.2	63	86	60-140	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	13.6	18.1	68	90	60-140	28	
1,3-Dichlorobenzene	ug/L	ND	20	20	13.3	17.1	67	85	60-140	25	
1,3-Dichloropropane	ug/L	ND	20	20	13.1	17.0	65	85	60-140	26	
1,4-Dichlorobenzene	ug/L	ND	20	20	12.4	16.1	62	81	60-140	26	
2,2-Dichloropropane	ug/L	ND	20	20	14.5	20.3	73	102	60-140	33	R1
2-Chlorotoluene	ug/L	ND	20	20	12.9	16.7	64	84	60-140	26	
4-Chlorotoluene	ug/L	ND	20	20	13.1	17.2	66	86	60-140	27	
Benzene	ug/L	ND	20	20	12.2	15.9	61	80	60-140	27	
Bromobenzene	ug/L	ND	20	20	12.3	16.2	61	81	60-140	28	
Bromochloromethane	ug/L	ND	20	20	13.2	17.5	66	88	60-140	28	
Bromodichloromethane	ug/L	ND	20	20	11.8	15.9	59	79	60-140	29	M1
Bromoform	ug/L	ND	20	20	12.8	17.0	64	85	60-140	28	
Bromomethane	ug/L	ND	20	20	13.4	17.7	67	89	60-140	28	
Carbon tetrachloride	ug/L	ND	20	20	12.9	17.2	65	86	60-140	28	
Chlorobenzene	ug/L	ND	20	20	12.7	16.5	64	82	60-140	26	
Chloroethane	ug/L	ND	20	20	13.8	18.4	69	92	60-140	29	
Chloroform	ug/L	ND	20	20	12.4	17.1	62	85	60-140	32	R1
Chloromethane	ug/L	ND	20	20	12.8	15.8	64	79	60-140	21	
cis-1,2-Dichloroethene	ug/L	ND	20	20	13.0	17.6	65	88	60-140	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	13.4	17.9	67	90	60-140	29	
Dibromochloromethane	ug/L	ND	20	20	13.4	17.9	67	90	60-140	29	
Dibromomethane	ug/L	ND	20	20	12.6	16.6	63	83	60-140	28	
Dichlorodifluoromethane	ug/L	ND	20	20	11.7	15.9	59	79	60-140	30	M1
Diisopropyl ether	ug/L	ND	20	20	12.1	17.0	60	85	60-140	34	R1
Ethylbenzene	ug/L	ND	20	20	13.2	17.4	66	87	60-140	27	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.0	20.0	85	100	60-140	16	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	13.3	17.5	67	87	60-140	27	
m&p-Xylene	ug/L	ND	40	40	27.1	35.3	68	88	60-140	26	
Methyl-tert-butyl ether	ug/L	ND	20	20	12.0	16.7	60	83	60-140	32	R1
Methylene Chloride	ug/L	ND	20	20	13.5	18.0	68	90	60-140	29	

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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
Pace Project No.: 92515858

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3124129 3124130

Parameter	Units	92515543003 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	14.4	18.4	72	92	60-140	24	
n-Propylbenzene	ug/L	ND	20	20	13.9	18.3	69	91	60-140	27	
Naphthalene	ug/L	ND	20	20	15.5	16.5	77	83	60-140	6	
o-Xylene	ug/L	ND	20	20	12.4	16.2	62	81	60-140	27	
sec-Butylbenzene	ug/L	ND	20	20	14.1	18.3	71	91	60-140	26	
Styrene	ug/L	ND	20	20	12.8	16.7	64	83	60-140	26	
tert-Butylbenzene	ug/L	ND	20	20	11.4	15.0	57	75	60-140	27	M1
Tetrachloroethene	ug/L	ND	20	20	12.9	17.0	64	85	60-140	28	
Toluene	ug/L	ND	20	20	12.8	16.9	64	84	60-140	27	
trans-1,2-Dichloroethene	ug/L	ND	20	20	13.7	19.1	69	96	60-140	33	R1
trans-1,3-Dichloropropene	ug/L	ND	20	20	13.3	17.4	67	87	60-140	27	
Trichloroethene	ug/L	ND	20	20	13.0	16.9	65	84	60-140	26	
Trichlorofluoromethane	ug/L	ND	20	20	13.1	18.1	65	90	60-140	32	R1
Vinyl chloride	ug/L	ND	20	20	12.5	16.9	63	85	60-140	30	
1,2-Dichloroethane-d4 (S)	%						106	109	70-130		
4-Bromofluorobenzene (S)	%						99	99	70-130		
Toluene-d8 (S)	%						100	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
Pace Project No.: 92515858

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: 2020-L1-2448
Pace Project No.: 92515858

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515543005	**MW-62D (125-143)**	MADEPV	1603010	MADEP VPH	1603010
92515543005	**MW-62D (125-143)**	EPA 3010A	591657	EPA 6010D	591685
92515543005	**MW-62D (125-143)**	SM 6200B	591592		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92515642

92515642

Company: APEX COMPANIES
Billing Information: ANDREW.STREET@APEXCOS.COM
Address: 5600 NORTHWOODS BUSINESS PKWY CHARLOTTE NC
Report To: ANDREW.STREET@APEXCOS.COM
Email To:
Copy To:
Site Collection Info/Address:
Customer Project Name/Number: CPC20126
State: NC / County/City: MECKLENBURG / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone:
Email:
Site/Facility ID #: COLONIAL PIPELINE HUNTERSVILLE
Compliance Monitoring? [ ] Yes [✓] No
Collected By (print): Tom Naumann
Purchase Order #:
Quote #:
DW PWS ID #:
DW Location Code:
Collected By (signature):
Turnaround Date Required: STANDARD
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 **: 3 | 3 | 1

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOCS 6200	VPH	LEAD	Lab Sample # / Comments: 92515543
EB-1-20210107	GW	G	1/7/21	1000					X	X	X	001
FB-1-20210107	↓	↓		1015					X	X	X	002
MW-65D(115-150)				1230					X	X	X	003
DUP-1-20210107				1245					X	X	X	004
MW-62D(125-143)				1630					X	X	X	005
TRIP BLANK									X			006

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:

only samples 003 and 005 logged on this WO

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None
SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Packing Material Used: b bags
Lab Tracking #: 2561067
Radchem sample(s) screened (<500 cpm): Y N (NA)
Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 1.3 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 1.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Tom Naumann / APEX	1/7/21 1745	[signature] PACE	1/7/21 1745

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 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
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(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			

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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	

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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	

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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	

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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	

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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
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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
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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

WO# : 92508021

92508021

LAB US... Number or

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-L-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 Frek

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: _____

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	VOCs 6200B	MADEP VPH	Lead							Lab Sample # / Comments
DUP-1	DW	G	11-24-20	-				8	X	X	X							92508021 001
FB-1	OT	G	11-24-20	-				8	X	X	X							002
Trip Blank	OT	G	11-24-20	-				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/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#: 92064
Cooler 1 Temp Upon Receipt: 1.9 oC
Cooler 1 Therm Corr. Factor: .01 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Frek / Apex	11-24-20 1410	LDH PACE HVL	11/24/20 1418
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# : 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 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			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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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			

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REPORT OF LABORATORY ANALYSIS

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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

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REPORT OF LABORATORY ANALYSIS

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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	

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REPORT OF LABORATORY ANALYSIS

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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	

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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	

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REPORT OF LABORATORY ANALYSIS

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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	

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REPORT OF LABORATORY ANALYSIS

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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	

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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
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(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- Affi

WO# : 92508822

92508822

ALL S

Container Preservat

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	Analyses: VOCs 6200B	Analyses: MADEP VPH	Analyses: Lead	Lab Profile/Line:
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

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:

92508822

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#: 92404
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)-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						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 16, 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.: 92510208

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
- 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.: 92510208

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: 2020-L1-2448 Incident
Pace Project No.: 92510208

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510208001	**13945_AC_RD_20201208**	MADEP VPH	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510208

Sample: 13945_AC_RD_20201208 **Lab ID: 92510208001** Collected: 12/08/20 10:45 Received: 12/08/20 13:45 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	12/15/20 17:37	12/15/20 17:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 17:37	12/15/20 17:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 17:37	12/15/20 17:37	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 17:37	12/15/20 17:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.4	%	70.0-130	1	12/15/20 17:37	12/15/20 17:37	615-59-8FID	
2,5-Dibromotoluene (PID)	95.7	%	70.0-130	1	12/15/20 17:37	12/15/20 17:37	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	12/10/20 01:56	12/11/20 16:42	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 17:26	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 17:26	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 17:26	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 17:26	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 17:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 17:26	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 17:26	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 17:26	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 17:26	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 17:26	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 17:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 17:26	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/10/20 17:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 17:26	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 17:26	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 17:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 17:26	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 17:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 17:26	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 17:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 17:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 17:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 17:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 17:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 17:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 17:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 17:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 17:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 17:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 17:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 17:26	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510208

Sample: 13945_AC_RD_20201208 **Lab ID: 92510208001** Collected: 12/08/20 10:45 Received: 12/08/20 13:45 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		12/10/20 17:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 17:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 17:26	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 17:26	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 17:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 17:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 17:26	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 17:26	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 17:26	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 17:26	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 17:26	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 17:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 17:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 17:26	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 17:26	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 17:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 17:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 17:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 17:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 17:26	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 17:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 17:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 17:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 17:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 17:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 17:26	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 17:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 17:26	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/10/20 17:26	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/10/20 17:26	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		12/10/20 17:26	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.: 92510208

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510208001

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510208001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510208

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92510208001

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510208001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	95	93	75-125	2	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510208

QC Batch: 586023
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510208001

METHOD BLANK: 3097380 Matrix: Water
Associated Lab Samples: 92510208001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/10/20 14:26	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/10/20 14:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/10/20 14:26	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/10/20 14:26	
1,1-Dichloroethane	ug/L	ND	0.50	12/10/20 14:26	
1,1-Dichloroethene	ug/L	ND	0.50	12/10/20 14:26	
1,1-Dichloropropene	ug/L	ND	0.50	12/10/20 14:26	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/10/20 14:26	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/10/20 14:26	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/10/20 14:26	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/10/20 14:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/10/20 14:26	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/10/20 14:26	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/10/20 14:26	
1,2-Dichloroethane	ug/L	ND	0.50	12/10/20 14:26	
1,2-Dichloropropane	ug/L	ND	0.50	12/10/20 14:26	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/10/20 14:26	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/10/20 14:26	
1,3-Dichloropropane	ug/L	ND	0.50	12/10/20 14:26	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/10/20 14:26	
2,2-Dichloropropane	ug/L	ND	0.50	12/10/20 14:26	
2-Chlorotoluene	ug/L	ND	0.50	12/10/20 14:26	
4-Chlorotoluene	ug/L	ND	0.50	12/10/20 14:26	
Benzene	ug/L	ND	0.50	12/10/20 14:26	
Bromobenzene	ug/L	ND	0.50	12/10/20 14:26	
Bromochloromethane	ug/L	ND	0.50	12/10/20 14:26	
Bromodichloromethane	ug/L	ND	0.50	12/10/20 14:26	
Bromoform	ug/L	ND	0.50	12/10/20 14:26	
Bromomethane	ug/L	ND	5.0	12/10/20 14:26	
Carbon tetrachloride	ug/L	ND	0.50	12/10/20 14:26	
Chlorobenzene	ug/L	ND	0.50	12/10/20 14:26	
Chloroethane	ug/L	ND	1.0	12/10/20 14:26	
Chloroform	ug/L	ND	0.50	12/10/20 14:26	
Chloromethane	ug/L	ND	1.0	12/10/20 14:26	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/10/20 14:26	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/10/20 14:26	
Dibromochloromethane	ug/L	ND	0.50	12/10/20 14:26	
Dibromomethane	ug/L	ND	0.50	12/10/20 14:26	
Dichlorodifluoromethane	ug/L	ND	0.50	12/10/20 14:26	
Diisopropyl ether	ug/L	ND	0.50	12/10/20 14:26	

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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.: 92510208

METHOD BLANK: 3097380 Matrix: Water
Associated Lab Samples: 92510208001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/10/20 14:26	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/10/20 14:26	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/10/20 14:26	
m&p-Xylene	ug/L	ND	1.0	12/10/20 14:26	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/10/20 14:26	
Methylene Chloride	ug/L	ND	2.0	12/10/20 14:26	
n-Butylbenzene	ug/L	ND	0.50	12/10/20 14:26	
n-Propylbenzene	ug/L	ND	0.50	12/10/20 14:26	
Naphthalene	ug/L	ND	2.0	12/10/20 14:26	
o-Xylene	ug/L	ND	0.50	12/10/20 14:26	
sec-Butylbenzene	ug/L	ND	0.50	12/10/20 14:26	
Styrene	ug/L	ND	0.50	12/10/20 14:26	
tert-Butylbenzene	ug/L	ND	0.50	12/10/20 14:26	
Tetrachloroethene	ug/L	ND	0.50	12/10/20 14:26	
Toluene	ug/L	ND	0.50	12/10/20 14:26	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/10/20 14:26	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/10/20 14:26	
Trichloroethene	ug/L	ND	0.50	12/10/20 14:26	
Trichlorofluoromethane	ug/L	ND	1.0	12/10/20 14:26	
Vinyl chloride	ug/L	ND	1.0	12/10/20 14:26	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/10/20 14:26	
4-Bromofluorobenzene (S)	%	98	70-130	12/10/20 14:26	
Toluene-d8 (S)	%	100	70-130	12/10/20 14:26	

LABORATORY CONTROL SAMPLE: 3097381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	60-140	
1,1,1-Trichloroethane	ug/L	50	47.2	94	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	60-140	
1,1,2-Trichloroethane	ug/L	50	48.4	97	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	49.9	100	60-140	
1,1-Dichloropropene	ug/L	50	48.0	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	47.9	96	60-140	
1,2,3-Trichloropropane	ug/L	50	47.9	96	60-140	
1,2,4-Trichlorobenzene	ug/L	50	47.7	95	60-140	
1,2,4-Trimethylbenzene	ug/L	50	45.8	92	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	48.8	98	60-140	
1,2-Dichlorobenzene	ug/L	50	48.8	98	60-140	
1,2-Dichloroethane	ug/L	50	43.4	87	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	45.9	92	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510208

LABORATORY CONTROL SAMPLE: 3097381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.2	96	60-140	
1,3-Dichloropropane	ug/L	50	49.5	99	60-140	
1,4-Dichlorobenzene	ug/L	50	47.8	96	60-140	
2,2-Dichloropropane	ug/L	50	48.7	97	60-140	
2-Chlorotoluene	ug/L	50	46.9	94	60-140	
4-Chlorotoluene	ug/L	50	46.4	93	60-140	
Benzene	ug/L	50	46.7	93	60-140	
Bromobenzene	ug/L	50	46.5	93	60-140	
Bromochloromethane	ug/L	50	50.5	101	60-140	
Bromodichloromethane	ug/L	50	46.6	93	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	48.2	96	60-140	
Chlorobenzene	ug/L	50	48.8	98	60-140	
Chloroethane	ug/L	50	31.8	64	60-140	
Chloroform	ug/L	50	45.4	91	60-140	
Chloromethane	ug/L	50	41.4	83	60-140	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	60-140	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	60-140	
Dibromochloromethane	ug/L	50	50.7	101	60-140	
Dibromomethane	ug/L	50	51.4	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.1	88	60-140	
Diisopropyl ether	ug/L	50	42.9	86	60-140	
Ethylbenzene	ug/L	50	48.4	97	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.1	98	60-140	
m&p-Xylene	ug/L	100	95.1	95	60-140	
Methyl-tert-butyl ether	ug/L	50	46.3	93	60-140	
Methylene Chloride	ug/L	50	45.6	91	60-140	
n-Butylbenzene	ug/L	50	46.6	93	60-140	
n-Propylbenzene	ug/L	50	45.3	91	60-140	
Naphthalene	ug/L	50	51.8	104	60-140	
o-Xylene	ug/L	50	48.6	97	60-140	
sec-Butylbenzene	ug/L	50	46.4	93	60-140	
Styrene	ug/L	50	49.5	99	60-140	
tert-Butylbenzene	ug/L	50	38.6	77	60-140	
Tetrachloroethene	ug/L	50	48.3	97	60-140	
Toluene	ug/L	50	47.5	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	60-140	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	60-140	
Trichloroethene	ug/L	50	49.5	99	60-140	
Trichlorofluoromethane	ug/L	50	40.5	81	60-140	
Vinyl chloride	ug/L	50	43.4	87	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

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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.: 92510208

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097382 3097383

Parameter	Units	92509723001 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	2000	2000	2120	2090	106	105	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	2000	2000	2080	2090	104	105	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	2000	2000	1980	1990	99	100	60-140	0	
1,1,2-Trichloroethane	ug/L	ND	2000	2000	2100	2060	105	103	60-140	2	
1,1-Dichloroethane	ug/L	ND	2000	2000	2050	2040	103	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	2000	2000	2150	2170	108	109	60-140	1	
1,1-Dichloropropene	ug/L	ND	2000	2000	2080	2050	104	102	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	2000	2000	1840	1980	90	97	60-140	8	
1,2,3-Trichloropropane	ug/L	ND	2000	2000	2010	2020	100	101	60-140	1	
1,2,4-Trichlorobenzene	ug/L	44.5J	2000	2000	1870	1990	91	97	60-140	6	
1,2,4-Trimethylbenzene	ug/L	1850	2000	2000	3600	3580	88	87	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	2000	2000	1960	2040	98	102	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	ND	2000	2000	2100	2050	105	102	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	2000	2000	2030	2030	101	102	60-140	0	
1,2-Dichloroethane	ug/L	ND	2000	2000	1930	1840	97	92	60-140	5	
1,2-Dichloropropane	ug/L	ND	2000	2000	2050	2020	103	101	60-140	1	
1,3,5-Trimethylbenzene	ug/L	527	2000	2000	2480	2440	98	96	60-140	2	
1,3-Dichlorobenzene	ug/L	25.9J	2000	2000	2030	2010	100	99	60-140	1	
1,3-Dichloropropane	ug/L	ND	2000	2000	2110	2050	105	103	60-140	3	
1,4-Dichlorobenzene	ug/L	ND	2000	2000	2010	1980	101	99	60-140	2	
2,2-Dichloropropane	ug/L	ND	2000	2000	1920	1890	95	94	60-140	2	
2-Chlorotoluene	ug/L	ND	2000	2000	2060	2100	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	2000	2000	1990	1950	99	97	60-140	2	
Benzene	ug/L	9250	2000	2000	10700	10700	71	72	60-140	0	
Bromobenzene	ug/L	ND	2000	2000	2030	1990	102	100	60-140	2	
Bromochloromethane	ug/L	ND	2000	2000	2150	2140	107	107	60-140	0	
Bromodichloromethane	ug/L	ND	2000	2000	2020	2000	101	100	60-140	1	
Bromoform	ug/L	ND	2000	2000	2040	2020	102	101	60-140	1	
Bromomethane	ug/L	ND	2000	2000	1850	1850	93	92	60-140	0	
Carbon tetrachloride	ug/L	ND	2000	2000	2170	2150	109	108	60-140	1	
Chlorobenzene	ug/L	ND	2000	2000	2120	2100	106	105	60-140	1	
Chloroethane	ug/L	ND	2000	2000	1780	1790	89	89	60-140	0	
Chloroform	ug/L	ND	2000	2000	1960	2030	97	101	60-140	3	
Chloromethane	ug/L	ND	2000	2000	1620	1620	81	81	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	1950	1940	98	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	2000	2000	2090	2070	104	104	60-140	1	
Dibromochloromethane	ug/L	ND	2000	2000	2160	2120	108	106	60-140	2	
Dibromomethane	ug/L	ND	2000	2000	2190	2180	109	109	60-140	0	
Dichlorodifluoromethane	ug/L	ND	2000	2000	1570	1550	78	78	60-140	1	
Diisopropyl ether	ug/L	204	2000	2000	1970	1970	88	88	60-140	0	
Ethylbenzene	ug/L	1540	2000	2000	3580	3540	102	100	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	2000	2000	1920	2050	96	103	60-140	6	
Isopropylbenzene (Cumene)	ug/L	86.9	2000	2000	2230	2200	107	106	60-140	1	
m&p-Xylene	ug/L	6050	4000	4000	9860	9860	95	95	60-140	0	
Methyl-tert-butyl ether	ug/L	9390	2000	2000	10600	10800	59	68	60-140	2	M1
Methylene Chloride	ug/L	ND	2000	2000	2040	2050	102	103	60-140	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510208

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097382 3097383

Parameter	Units	92509723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	68.5	2000	2000	1980	1980	95	96	60-140	0	
n-Propylbenzene	ug/L	147	2000	2000	2120	2080	99	97	60-140	2	
Naphthalene	ug/L	444	2000	2000	2310	2410	93	98	60-140	4	
o-Xylene	ug/L	370	2000	2000	2450	2410	104	102	60-140	2	
sec-Butylbenzene	ug/L	ND	2000	2000	2050	2030	103	102	60-140	1	
Styrene	ug/L	ND	2000	2000	2100	2100	105	105	60-140	0	
tert-Butylbenzene	ug/L	ND	2000	2000	1750	1720	87	86	60-140	2	
Tetrachloroethene	ug/L	ND	2000	2000	2120	2070	106	104	60-140	2	
Toluene	ug/L	4350	2000	2000	6130	6170	89	91	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	2000	2000	2070	2010	103	100	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	2000	2000	2030	2020	101	101	60-140	1	
Trichloroethene	ug/L	ND	2000	2000	2180	2170	109	109	60-140	1	
Trichlorofluoromethane	ug/L	ND	2000	2000	2020	2000	101	100	60-140	1	
Vinyl chloride	ug/L	ND	2000	2000	1760	1750	88	87	60-140	0	
1,2-Dichloroethane-d4 (S)	%						99	102	70-130		
4-Bromofluorobenzene (S)	%						100	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: 2020-L1-2448 Incident
Pace Project No.: 92510208

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.: 92510208

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510208001	**13945_AC_RD_20201208**	MADEPV	1592110	MADEP VPH	1592110
92510208001	**13945_AC_RD_20201208**	EPA 3010A	585802	EPA 6010D	585907
92510208001	**13945_AC_RD_20201208**	SM 6200B	586023		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB US

WO# : 92510208

92510208

umber or

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 _____

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)

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 6200 B	MADEP VPH	Lead	Lab Sample # / Comments
13945_AC_RD_20201208	GW	G	12-8-20	1045				8	X	X	X	92510208 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:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB.

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

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

Lab Tracking #: 2561301

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

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92606

Cooler 1 Temp Upon Receipt: 5.6 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.5 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-8-20 1345	CDH PACE ANL	12/8/20 1345
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# : 92510208**

PM: AMB Due Date: 12/15/20

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										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 16, 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.: 92510211

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
- 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.: 92510211

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: 2020-L1-2448 Incident
Pace Project No.: 92510211

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510211001	**14401_HC_RD_20201208**	MADEP VPH	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510211

Sample: 14401_HC_RD_20201208 **Lab ID: 92510211001** Collected: 12/08/20 09:10 Received: 12/08/20 13:45 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	12/15/20 15:58	12/15/20 15:58		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 15:58	12/15/20 15:58		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 15:58	12/15/20 15:58	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 15:58	12/15/20 15:58	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.9	%	70.0-130	1	12/15/20 15:58	12/15/20 15:58	615-59-8FID	
2,5-Dibromotoluene (PID)	90.8	%	70.0-130	1	12/15/20 15:58	12/15/20 15:58	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	12/10/20 01:56	12/12/20 11:17	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 01:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 01:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 01:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 01:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 01:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 01:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 01:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 01:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 01:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 01:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 01:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 01:51	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/10/20 01:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 01:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 01:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 01:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 01:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 01:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 01:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 01:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 01:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 01:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 01:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 01:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 01:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 01:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 01:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 01:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 01:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 01:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 01:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 01:51	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.: 92510211

Sample: 14401_HC_RD_20201208 **Lab ID: 92510211001** Collected: 12/08/20 09:10 Received: 12/08/20 13:45 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		12/10/20 01:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 01:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 01:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 01:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 01:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 01:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 01:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 01:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 01:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 01:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 01:51	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 01:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 01:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 01:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 01:51	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 01:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 01:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 01:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 01:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 01:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 01:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 01:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 01:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 01:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 01:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 01:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 01:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 01:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		12/10/20 01:51	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/10/20 01:51	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/10/20 01:51	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.: 92510211

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510211001

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	70.0-130			

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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.: 92510211

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92510211001

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	95	93	75-125	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510211

QC Batch: 585755
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510211001

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
2,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
2-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
4-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
Benzene	ug/L	ND	0.50	12/09/20 22:51	
Bromobenzene	ug/L	ND	0.50	12/09/20 22:51	
Bromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromodichloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromoform	ug/L	ND	0.50	12/09/20 22:51	
Bromomethane	ug/L	ND	5.0	12/09/20 22:51	
Carbon tetrachloride	ug/L	ND	0.50	12/09/20 22:51	
Chlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
Chloroethane	ug/L	ND	1.0	12/09/20 22:51	
Chloroform	ug/L	ND	0.50	12/09/20 22:51	
Chloromethane	ug/L	ND	1.0	12/09/20 22:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Dibromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Dibromomethane	ug/L	ND	0.50	12/09/20 22:51	
Dichlorodifluoromethane	ug/L	ND	0.50	12/09/20 22:51	
Diisopropyl ether	ug/L	ND	0.50	12/09/20 22:51	

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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.: 92510211

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/09/20 22:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/09/20 22:51	
m&p-Xylene	ug/L	ND	1.0	12/09/20 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/09/20 22:51	
Methylene Chloride	ug/L	ND	2.0	12/09/20 22:51	
n-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
n-Propylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Naphthalene	ug/L	ND	2.0	12/09/20 22:51	
o-Xylene	ug/L	ND	0.50	12/09/20 22:51	
sec-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Styrene	ug/L	ND	0.50	12/09/20 22:51	
tert-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Tetrachloroethene	ug/L	ND	0.50	12/09/20 22:51	
Toluene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Trichloroethene	ug/L	ND	0.50	12/09/20 22:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/09/20 22:51	
Vinyl chloride	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/09/20 22:51	
4-Bromofluorobenzene (S)	%	98	70-130	12/09/20 22:51	
Toluene-d8 (S)	%	100	70-130	12/09/20 22:51	

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.2	102	60-140	
1,1-Dichloroethane	ug/L	50	49.5	99	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	48.6	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	51.5	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	45.6	91	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	60-140	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510211

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.8	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.5	101	60-140	
2,2-Dichloropropane	ug/L	50	50.3	101	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.8	96	60-140	
Benzene	ug/L	50	48.8	98	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.8	106	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	60-140	
Chlorobenzene	ug/L	50	51.1	102	60-140	
Chloroethane	ug/L	50	32.2	64	60-140	
Chloroform	ug/L	50	47.0	94	60-140	
Chloromethane	ug/L	50	42.4	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	60-140	
Dibromochloromethane	ug/L	50	53.4	107	60-140	
Dibromomethane	ug/L	50	54.3	109	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.4	95	60-140	
n-Butylbenzene	ug/L	50	48.5	97	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	55.1	110	60-140	
o-Xylene	ug/L	50	50.9	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	52.1	104	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Trichloroethene	ug/L	50	51.2	102	60-140	
Trichlorofluoromethane	ug/L	50	40.7	81	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92510211

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 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	200	200	205	204	102	102	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	200	200	203	205	102	102	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	199	195	99	98	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	200	101	100	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	202	204	101	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	200	200	218	214	109	107	60-140	2	
1,1-Dichloropropene	ug/L	ND	200	200	207	207	103	104	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	208	112	104	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	200	200	198	200	99	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	218	208	109	104	60-140	5	
1,2,4-Trimethylbenzene	ug/L	55.3	200	200	259	262	102	103	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	215	217	108	109	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	199	199	100	100	60-140	0	
1,2-Dichlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
1,2-Dichloroethane	ug/L	ND	200	200	186	184	93	92	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	199	197	100	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	212	214	106	107	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	205	102	102	60-140	0	
1,3-Dichloropropane	ug/L	ND	200	200	204	205	102	102	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	200	200	203	207	101	104	60-140	2	
2,2-Dichloropropane	ug/L	ND	200	200	217	215	109	107	60-140	1	
2-Chlorotoluene	ug/L	ND	200	200	206	211	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	198	202	99	101	60-140	2	
Benzene	ug/L	78.6	200	200	280	277	101	99	60-140	1	
Bromobenzene	ug/L	ND	200	200	200	204	100	102	60-140	2	
Bromochloromethane	ug/L	ND	200	200	208	213	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	200	200	194	194	97	97	60-140	0	
Bromoform	ug/L	ND	200	200	201	200	100	100	60-140	0	
Bromomethane	ug/L	ND	200	200	197	197	98	98	60-140	0	
Carbon tetrachloride	ug/L	ND	200	200	206	208	103	104	60-140	1	
Chlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
Chloroethane	ug/L	ND	200	200	171	174	86	87	60-140	1	
Chloroform	ug/L	ND	200	200	194	192	97	96	60-140	1	
Chloromethane	ug/L	ND	200	200	166	163	83	81	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	200	200	191	193	95	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	208	206	104	103	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	206	210	103	105	60-140	2	
Dibromomethane	ug/L	ND	200	200	211	210	105	105	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	162	157	81	79	60-140	3	
Diisopropyl ether	ug/L	14.7	200	200	194	194	90	90	60-140	0	
Ethylbenzene	ug/L	50.2	200	200	258	260	104	105	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	230	225	115	113	60-140	2	
Isopropylbenzene (Cumene)	ug/L	17.7	200	200	228	229	105	106	60-140	1	
m&p-Xylene	ug/L	51.0	400	400	460	464	102	103	60-140	1	
Methyl-tert-butyl ether	ug/L	1170	200	200	1390	1380	112	107	60-140	1	
Methylene Chloride	ug/L	ND	200	200	205	204	103	102	60-140	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510211

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	216	213	108	107	60-140	1	
n-Propylbenzene	ug/L	ND	200	200	210	215	105	107	60-140	2	
Naphthalene	ug/L	94.3	200	200	314	303	110	104	60-140	4	
o-Xylene	ug/L	ND	200	200	207	208	101	102	60-140	1	
sec-Butylbenzene	ug/L	ND	200	200	215	216	108	108	60-140	0	
Styrene	ug/L	ND	200	200	203	205	102	102	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	174	176	87	88	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	210	207	105	103	60-140	1	
Toluene	ug/L	5.8	200	200	206	209	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	204	203	102	101	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	200	200	202	202	101	101	60-140	0	
Trichloroethene	ug/L	ND	200	200	211	210	105	105	60-140	0	
Trichlorofluoromethane	ug/L	ND	200	200	197	200	98	100	60-140	2	
Vinyl chloride	ug/L	ND	200	200	178	174	89	87	60-140	2	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510211

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92510211

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510211001	**14401_HC_RD_20201208**	MADEPV	1592110	MADEP VPH	1592110
92510211001	**14401_HC_RD_20201208**	EPA 3010A	585802	EPA 6010D	585907
92510211001	**14401_HC_RD_20201208**	SM 6200B	585755		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ON[LY]

WO# : 92510211

92510211

Company: Apex Companies
Address:
Billing Information:

Report To: Andrew Street
Copy To:
Email To: Andrew.Street@apexcos.com
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 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 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	Time	Composite End Date	Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
14401_NC_RD_20201208	GW	G	12-8-20	0910				8	X	X	X	92510211 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: BB
Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2561075
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: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fritz / Apex	12-8-20 1345	LDH PACE HUC	12/8/20 1345

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#: 92510211**

PM: AMB Due Date: 12/15/20

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 16, 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.: 92510221

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
- 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.: 92510221

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: 2020-L1-2448 Incident
Pace Project No.: 92510221

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510221001	**13800_HC_RD_20201208**	MADEP VPH	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
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510221

Sample: 13800_HC_RD_20201208 **Lab ID: 92510221001** Collected: 12/07/20 08:20 Received: 12/08/20 13:45 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	12/15/20 18:09	12/15/20 18:09		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 18:09	12/15/20 18:09		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 18:09	12/15/20 18:09	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 18:09	12/15/20 18:09	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.8	%	70.0-130	1	12/15/20 18:09	12/15/20 18:09	615-59-8FID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	1	12/15/20 18:09	12/15/20 18:09	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	12/10/20 01:56	12/12/20 11:21	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 01:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 01:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 01:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 01:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 01:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 01:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 01:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 01:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 01:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 01:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 01:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 01:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/10/20 01:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 01:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 01:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 01:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 01:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 01:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 01:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 01:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 01:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 01:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 01:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 01:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 01:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 01:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 01:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 01:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 01:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 01:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 01:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 01:33	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: 2020-L1-2448 Incident
Pace Project No.: 92510221

Sample: 13800_HC_RD_20201208 **Lab ID: 92510221001** Collected: 12/07/20 08:20 Received: 12/08/20 13:45 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		12/10/20 01:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 01:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 01:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 01:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 01:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 01:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 01:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 01:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 01:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 01:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 01:33	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 01:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 01:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 01:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 01:33	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 01:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 01:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 01:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 01:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 01:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 01:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 01:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 01:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 01:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 01:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 01:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 01:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 01:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/10/20 01:33	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/10/20 01:33	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/10/20 01:33	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.: 92510221

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510221001

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510221001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	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: 2020-L1-2448 Incident
Pace Project No.: 92510221

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92510221001

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510221001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	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: 2020-L1-2448 Incident
Pace Project No.: 92510221

QC Batch: 585755
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510221001

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510221001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
2,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
2-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
4-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
Benzene	ug/L	ND	0.50	12/09/20 22:51	
Bromobenzene	ug/L	ND	0.50	12/09/20 22:51	
Bromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromodichloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromoform	ug/L	ND	0.50	12/09/20 22:51	
Bromomethane	ug/L	ND	5.0	12/09/20 22:51	
Carbon tetrachloride	ug/L	ND	0.50	12/09/20 22:51	
Chlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
Chloroethane	ug/L	ND	1.0	12/09/20 22:51	
Chloroform	ug/L	ND	0.50	12/09/20 22:51	
Chloromethane	ug/L	ND	1.0	12/09/20 22:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Dibromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Dibromomethane	ug/L	ND	0.50	12/09/20 22:51	
Dichlorodifluoromethane	ug/L	ND	0.50	12/09/20 22:51	
Diisopropyl ether	ug/L	ND	0.50	12/09/20 22:51	

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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.: 92510221

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510221001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/09/20 22:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/09/20 22:51	
m&p-Xylene	ug/L	ND	1.0	12/09/20 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/09/20 22:51	
Methylene Chloride	ug/L	ND	2.0	12/09/20 22:51	
n-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
n-Propylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Naphthalene	ug/L	ND	2.0	12/09/20 22:51	
o-Xylene	ug/L	ND	0.50	12/09/20 22:51	
sec-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Styrene	ug/L	ND	0.50	12/09/20 22:51	
tert-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Tetrachloroethene	ug/L	ND	0.50	12/09/20 22:51	
Toluene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Trichloroethene	ug/L	ND	0.50	12/09/20 22:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/09/20 22:51	
Vinyl chloride	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/09/20 22:51	
4-Bromofluorobenzene (S)	%	98	70-130	12/09/20 22:51	
Toluene-d8 (S)	%	100	70-130	12/09/20 22:51	

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.2	102	60-140	
1,1-Dichloroethane	ug/L	50	49.5	99	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	48.6	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	51.5	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	45.6	91	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	60-140	

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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.: 92510221

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.8	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.5	101	60-140	
2,2-Dichloropropane	ug/L	50	50.3	101	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.8	96	60-140	
Benzene	ug/L	50	48.8	98	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.8	106	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	60-140	
Chlorobenzene	ug/L	50	51.1	102	60-140	
Chloroethane	ug/L	50	32.2	64	60-140	
Chloroform	ug/L	50	47.0	94	60-140	
Chloromethane	ug/L	50	42.4	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	60-140	
Dibromochloromethane	ug/L	50	53.4	107	60-140	
Dibromomethane	ug/L	50	54.3	109	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.4	95	60-140	
n-Butylbenzene	ug/L	50	48.5	97	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	55.1	110	60-140	
o-Xylene	ug/L	50	50.9	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	52.1	104	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Trichloroethene	ug/L	50	51.2	102	60-140	
Trichlorofluoromethane	ug/L	50	40.7	81	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92510221

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 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	200	200	205	204	102	102	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	200	200	203	205	102	102	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	199	195	99	98	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	200	101	100	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	202	204	101	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	200	200	218	214	109	107	60-140	2	
1,1-Dichloropropene	ug/L	ND	200	200	207	207	103	104	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	208	112	104	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	200	200	198	200	99	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	218	208	109	104	60-140	5	
1,2,4-Trimethylbenzene	ug/L	55.3	200	200	259	262	102	103	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	215	217	108	109	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	199	199	100	100	60-140	0	
1,2-Dichlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
1,2-Dichloroethane	ug/L	ND	200	200	186	184	93	92	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	199	197	100	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	212	214	106	107	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	205	102	102	60-140	0	
1,3-Dichloropropane	ug/L	ND	200	200	204	205	102	102	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	200	200	203	207	101	104	60-140	2	
2,2-Dichloropropane	ug/L	ND	200	200	217	215	109	107	60-140	1	
2-Chlorotoluene	ug/L	ND	200	200	206	211	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	198	202	99	101	60-140	2	
Benzene	ug/L	78.6	200	200	280	277	101	99	60-140	1	
Bromobenzene	ug/L	ND	200	200	200	204	100	102	60-140	2	
Bromochloromethane	ug/L	ND	200	200	208	213	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	200	200	194	194	97	97	60-140	0	
Bromoform	ug/L	ND	200	200	201	200	100	100	60-140	0	
Bromomethane	ug/L	ND	200	200	197	197	98	98	60-140	0	
Carbon tetrachloride	ug/L	ND	200	200	206	208	103	104	60-140	1	
Chlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
Chloroethane	ug/L	ND	200	200	171	174	86	87	60-140	1	
Chloroform	ug/L	ND	200	200	194	192	97	96	60-140	1	
Chloromethane	ug/L	ND	200	200	166	163	83	81	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	200	200	191	193	95	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	208	206	104	103	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	206	210	103	105	60-140	2	
Dibromomethane	ug/L	ND	200	200	211	210	105	105	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	162	157	81	79	60-140	3	
Diisopropyl ether	ug/L	14.7	200	200	194	194	90	90	60-140	0	
Ethylbenzene	ug/L	50.2	200	200	258	260	104	105	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	230	225	115	113	60-140	2	
Isopropylbenzene (Cumene)	ug/L	17.7	200	200	228	229	105	106	60-140	1	
m&p-Xylene	ug/L	51.0	400	400	460	464	102	103	60-140	1	
Methyl-tert-butyl ether	ug/L	1170	200	200	1390	1380	112	107	60-140	1	
Methylene Chloride	ug/L	ND	200	200	205	204	103	102	60-140	0	

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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.: 92510221

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	216	213	108	107	60-140	1	
n-Propylbenzene	ug/L	ND	200	200	210	215	105	107	60-140	2	
Naphthalene	ug/L	94.3	200	200	314	303	110	104	60-140	4	
o-Xylene	ug/L	ND	200	200	207	208	101	102	60-140	1	
sec-Butylbenzene	ug/L	ND	200	200	215	216	108	108	60-140	0	
Styrene	ug/L	ND	200	200	203	205	102	102	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	174	176	87	88	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	210	207	105	103	60-140	1	
Toluene	ug/L	5.8	200	200	206	209	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	204	203	102	101	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	200	200	202	202	101	101	60-140	0	
Trichloroethene	ug/L	ND	200	200	211	210	105	105	60-140	0	
Trichlorofluoromethane	ug/L	ND	200	200	197	200	98	100	60-140	2	
Vinyl chloride	ug/L	ND	200	200	178	174	89	87	60-140	2	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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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.: 92510221

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-L1-2448 Incident
Pace Project No.: 92510221

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510221001	**13800_HC_RD_20201208**	MADEPV	1592110	MADEP VPH	1592110
92510221001	**13800_HC_RD_20201208**	EPA 3010A	585802	EPA 6010D	585907
92510221001	**13800_HC_RD_20201208**	SM 6200B	585755		

WO# : 92510221

92510221

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: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address: 13800 Huntersville Concord Rd

Customer Project Name/Number: 2020-LL-2448 Trident

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

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 _____

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

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:

92510221 001

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-20201208	GW	G	12-7-20	0820				8	X	X	X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB

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

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

Lab Tracking #: 2561302

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92to64
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-8-20 1345	LDH PACE HVC	12/8/20 1345
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# : 92510221**

PM: AMB Due Date: 12/15/20

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 16, 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.: 92510233

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
- 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.: 92510233

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: 2020-L1-2448 Incident
Pace Project No.: 92510233

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510233001	**13835_AC_RD_20201208**	MADEP VPH	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510233

Sample: 13835_AC_RD_20201208 **Lab ID: 92510233001** Collected: 12/08/20 11:30 Received: 12/08/20 13:45 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	12/15/20 15:24	12/15/20 15:24		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 15:24	12/15/20 15:24		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 15:24	12/15/20 15:24	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 15:24	12/15/20 15:24	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.5	%	70.0-130	1	12/15/20 15:24	12/15/20 15:24	615-59-8FID	
2,5-Dibromotoluene (PID)	93.9	%	70.0-130	1	12/15/20 15:24	12/15/20 15:24	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	12/10/20 01:56	12/12/20 11:24	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 02:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 02:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 02:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 02:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 02:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 02:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 02:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 02:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 02:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/10/20 02:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 02:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 02:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 02:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 02:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 02:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 02:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 02:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 02:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 02:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 02:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:09	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: 2020-L1-2448 Incident
Pace Project No.: 92510233

Sample: 13835_AC_RD_20201208 **Lab ID: 92510233001** Collected: 12/08/20 11:30 Received: 12/08/20 13:45 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		12/10/20 02:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 02:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 02:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 02:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 02:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 02:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 02:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 02:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 02:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 02:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 02:09	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 02:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 02:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 02:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 02:09	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 02:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 02:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 02:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 02:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 02:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 02:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 02:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 02:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 02:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 02:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 02:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 02:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 02:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		12/10/20 02:09	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/10/20 02:09	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/10/20 02:09	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.: 92510233

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510233001

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510233001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	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: 2020-L1-2448 Incident
Pace Project No.: 92510233

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92510233001

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510233001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	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: 2020-L1-2448 Incident
Pace Project No.: 92510233

QC Batch: 585755
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510233001

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510233001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
2,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
2-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
4-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
Benzene	ug/L	ND	0.50	12/09/20 22:51	
Bromobenzene	ug/L	ND	0.50	12/09/20 22:51	
Bromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromodichloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromoform	ug/L	ND	0.50	12/09/20 22:51	
Bromomethane	ug/L	ND	5.0	12/09/20 22:51	
Carbon tetrachloride	ug/L	ND	0.50	12/09/20 22:51	
Chlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
Chloroethane	ug/L	ND	1.0	12/09/20 22:51	
Chloroform	ug/L	ND	0.50	12/09/20 22:51	
Chloromethane	ug/L	ND	1.0	12/09/20 22:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Dibromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Dibromomethane	ug/L	ND	0.50	12/09/20 22:51	
Dichlorodifluoromethane	ug/L	ND	0.50	12/09/20 22:51	
Diisopropyl ether	ug/L	ND	0.50	12/09/20 22:51	

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

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.: 92510233

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510233001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/09/20 22:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/09/20 22:51	
m&p-Xylene	ug/L	ND	1.0	12/09/20 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/09/20 22:51	
Methylene Chloride	ug/L	ND	2.0	12/09/20 22:51	
n-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
n-Propylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Naphthalene	ug/L	ND	2.0	12/09/20 22:51	
o-Xylene	ug/L	ND	0.50	12/09/20 22:51	
sec-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Styrene	ug/L	ND	0.50	12/09/20 22:51	
tert-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Tetrachloroethene	ug/L	ND	0.50	12/09/20 22:51	
Toluene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Trichloroethene	ug/L	ND	0.50	12/09/20 22:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/09/20 22:51	
Vinyl chloride	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/09/20 22:51	
4-Bromofluorobenzene (S)	%	98	70-130	12/09/20 22:51	
Toluene-d8 (S)	%	100	70-130	12/09/20 22:51	

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.2	102	60-140	
1,1-Dichloroethane	ug/L	50	49.5	99	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	48.6	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	51.5	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	45.6	91	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	60-140	

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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.: 92510233

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.8	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.5	101	60-140	
2,2-Dichloropropane	ug/L	50	50.3	101	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.8	96	60-140	
Benzene	ug/L	50	48.8	98	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.8	106	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	60-140	
Chlorobenzene	ug/L	50	51.1	102	60-140	
Chloroethane	ug/L	50	32.2	64	60-140	
Chloroform	ug/L	50	47.0	94	60-140	
Chloromethane	ug/L	50	42.4	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	60-140	
Dibromochloromethane	ug/L	50	53.4	107	60-140	
Dibromomethane	ug/L	50	54.3	109	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.4	95	60-140	
n-Butylbenzene	ug/L	50	48.5	97	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	55.1	110	60-140	
o-Xylene	ug/L	50	50.9	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	52.1	104	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Trichloroethene	ug/L	50	51.2	102	60-140	
Trichlorofluoromethane	ug/L	50	40.7	81	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92510233

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 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	200	200	205	204	102	102	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	200	200	203	205	102	102	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	199	195	99	98	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	200	101	100	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	202	204	101	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	200	200	218	214	109	107	60-140	2	
1,1-Dichloropropene	ug/L	ND	200	200	207	207	103	104	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	208	112	104	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	200	200	198	200	99	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	218	208	109	104	60-140	5	
1,2,4-Trimethylbenzene	ug/L	55.3	200	200	259	262	102	103	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	215	217	108	109	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	199	199	100	100	60-140	0	
1,2-Dichlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
1,2-Dichloroethane	ug/L	ND	200	200	186	184	93	92	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	199	197	100	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	212	214	106	107	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	205	102	102	60-140	0	
1,3-Dichloropropane	ug/L	ND	200	200	204	205	102	102	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	200	200	203	207	101	104	60-140	2	
2,2-Dichloropropane	ug/L	ND	200	200	217	215	109	107	60-140	1	
2-Chlorotoluene	ug/L	ND	200	200	206	211	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	198	202	99	101	60-140	2	
Benzene	ug/L	78.6	200	200	280	277	101	99	60-140	1	
Bromobenzene	ug/L	ND	200	200	200	204	100	102	60-140	2	
Bromochloromethane	ug/L	ND	200	200	208	213	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	200	200	194	194	97	97	60-140	0	
Bromoform	ug/L	ND	200	200	201	200	100	100	60-140	0	
Bromomethane	ug/L	ND	200	200	197	197	98	98	60-140	0	
Carbon tetrachloride	ug/L	ND	200	200	206	208	103	104	60-140	1	
Chlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
Chloroethane	ug/L	ND	200	200	171	174	86	87	60-140	1	
Chloroform	ug/L	ND	200	200	194	192	97	96	60-140	1	
Chloromethane	ug/L	ND	200	200	166	163	83	81	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	200	200	191	193	95	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	208	206	104	103	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	206	210	103	105	60-140	2	
Dibromomethane	ug/L	ND	200	200	211	210	105	105	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	162	157	81	79	60-140	3	
Diisopropyl ether	ug/L	14.7	200	200	194	194	90	90	60-140	0	
Ethylbenzene	ug/L	50.2	200	200	258	260	104	105	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	230	225	115	113	60-140	2	
Isopropylbenzene (Cumene)	ug/L	17.7	200	200	228	229	105	106	60-140	1	
m&p-Xylene	ug/L	51.0	400	400	460	464	102	103	60-140	1	
Methyl-tert-butyl ether	ug/L	1170	200	200	1390	1380	112	107	60-140	1	
Methylene Chloride	ug/L	ND	200	200	205	204	103	102	60-140	0	

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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.: 92510233

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	216	213	108	107	60-140	1	
n-Propylbenzene	ug/L	ND	200	200	210	215	105	107	60-140	2	
Naphthalene	ug/L	94.3	200	200	314	303	110	104	60-140	4	
o-Xylene	ug/L	ND	200	200	207	208	101	102	60-140	1	
sec-Butylbenzene	ug/L	ND	200	200	215	216	108	108	60-140	0	
Styrene	ug/L	ND	200	200	203	205	102	102	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	174	176	87	88	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	210	207	105	103	60-140	1	
Toluene	ug/L	5.8	200	200	206	209	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	204	203	102	101	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	200	200	202	202	101	101	60-140	0	
Trichloroethene	ug/L	ND	200	200	211	210	105	105	60-140	0	
Trichlorofluoromethane	ug/L	ND	200	200	197	200	98	100	60-140	2	
Vinyl chloride	ug/L	ND	200	200	178	174	89	87	60-140	2	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510233

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-L1-2448 Incident
Pace Project No.: 92510233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510233001	**13835_AC_RD_20201208**	MADEPV	1592110	MADEP VPH	1592110
92510233001	**13835_AC_RD_20201208**	EPA 3010A	585802	EPA 6010D	585907
92510233001	**13835_AC_RD_20201208**	SM 6200B	585755		

WO# : 92510233

92510233

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ... umber 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-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: _____

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	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
13835-AC-RD-20201208	GW	G	12-8-20	1130				8	X	X	X	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:
Lab Sample # / Comments:

92510233
001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: BB

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

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

Lab Tracking #: 2561076

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92 to 64
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fritz / Apex	12-8-20 1345	CDH PACE HNL	12/8/20 1345
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# : 92510233

PM: AMB Due Date: 12/15/20

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										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 16, 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.: 92510237

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
- 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.: 92510237

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: 2020-L1-2448 Incident
Pace Project No.: 92510237

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510237001	**13926B_HC_RD_20201208**	MADEP VPH	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
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510237

Sample: 13926B_HC_RD_20201208 **Lab ID: 92510237001** Collected: 12/08/20 12:10 Received: 12/08/20 13:45 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	12/15/20 14:51	12/15/20 14:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 14:51	12/15/20 14:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 14:51	12/15/20 14:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 14:51	12/15/20 14:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	12/15/20 14:51	12/15/20 14:51	615-59-8FID	
2,5-Dibromotoluene (PID)	96.5	%	70.0-130	1	12/15/20 14:51	12/15/20 14:51	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	12/10/20 01:56	12/12/20 11:27	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 02:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 02:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 02:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 02:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 02:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 02:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 02:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 02:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 02:27	75-00-3	
Chloroform	**9.2**	ug/L	0.50	1		12/10/20 02:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 02:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 02:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 02:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 02:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 02:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 02:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 02:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 02:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 02:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 02:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:27	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.: 92510237

Sample: 13926B_HC_RD_20201208 **Lab ID: 92510237001** Collected: 12/08/20 12:10 Received: 12/08/20 13:45 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		12/10/20 02:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 02:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 02:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 02:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 02:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 02:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 02:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 02:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 02:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 02:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 02:27	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 02:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 02:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 02:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 02:27	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 02:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 02:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 02:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 02:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 02:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 02:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 02:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 02:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 02:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 02:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 02:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 02:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 02:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/10/20 02:27	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/10/20 02:27	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/10/20 02:27	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.: 92510237

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92510237001

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510237001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	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: 2020-L1-2448 Incident
Pace Project No.: 92510237

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92510237001

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510237001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	95	93	75-125	2	

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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.: 92510237

QC Batch: 585755
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510237001

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510237001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
2,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
2-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
4-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
Benzene	ug/L	ND	0.50	12/09/20 22:51	
Bromobenzene	ug/L	ND	0.50	12/09/20 22:51	
Bromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromodichloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromoform	ug/L	ND	0.50	12/09/20 22:51	
Bromomethane	ug/L	ND	5.0	12/09/20 22:51	
Carbon tetrachloride	ug/L	ND	0.50	12/09/20 22:51	
Chlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
Chloroethane	ug/L	ND	1.0	12/09/20 22:51	
Chloroform	ug/L	ND	0.50	12/09/20 22:51	
Chloromethane	ug/L	ND	1.0	12/09/20 22:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Dibromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Dibromomethane	ug/L	ND	0.50	12/09/20 22:51	
Dichlorodifluoromethane	ug/L	ND	0.50	12/09/20 22:51	
Diisopropyl ether	ug/L	ND	0.50	12/09/20 22:51	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510237

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510237001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/09/20 22:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/09/20 22:51	
m&p-Xylene	ug/L	ND	1.0	12/09/20 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/09/20 22:51	
Methylene Chloride	ug/L	ND	2.0	12/09/20 22:51	
n-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
n-Propylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Naphthalene	ug/L	ND	2.0	12/09/20 22:51	
o-Xylene	ug/L	ND	0.50	12/09/20 22:51	
sec-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Styrene	ug/L	ND	0.50	12/09/20 22:51	
tert-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Tetrachloroethene	ug/L	ND	0.50	12/09/20 22:51	
Toluene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Trichloroethene	ug/L	ND	0.50	12/09/20 22:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/09/20 22:51	
Vinyl chloride	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/09/20 22:51	
4-Bromofluorobenzene (S)	%	98	70-130	12/09/20 22:51	
Toluene-d8 (S)	%	100	70-130	12/09/20 22:51	

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.2	102	60-140	
1,1-Dichloroethane	ug/L	50	49.5	99	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	48.6	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	51.5	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	45.6	91	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	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.: 92510237

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.8	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.5	101	60-140	
2,2-Dichloropropane	ug/L	50	50.3	101	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.8	96	60-140	
Benzene	ug/L	50	48.8	98	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.8	106	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	60-140	
Chlorobenzene	ug/L	50	51.1	102	60-140	
Chloroethane	ug/L	50	32.2	64	60-140	
Chloroform	ug/L	50	47.0	94	60-140	
Chloromethane	ug/L	50	42.4	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	60-140	
Dibromochloromethane	ug/L	50	53.4	107	60-140	
Dibromomethane	ug/L	50	54.3	109	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.4	95	60-140	
n-Butylbenzene	ug/L	50	48.5	97	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	55.1	110	60-140	
o-Xylene	ug/L	50	50.9	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	52.1	104	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Trichloroethene	ug/L	50	51.2	102	60-140	
Trichlorofluoromethane	ug/L	50	40.7	81	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92510237

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 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	200	200	205	204	102	102	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	200	200	203	205	102	102	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	199	195	99	98	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	200	101	100	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	202	204	101	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	200	200	218	214	109	107	60-140	2	
1,1-Dichloropropene	ug/L	ND	200	200	207	207	103	104	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	208	112	104	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	200	200	198	200	99	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	218	208	109	104	60-140	5	
1,2,4-Trimethylbenzene	ug/L	55.3	200	200	259	262	102	103	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	215	217	108	109	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	199	199	100	100	60-140	0	
1,2-Dichlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
1,2-Dichloroethane	ug/L	ND	200	200	186	184	93	92	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	199	197	100	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	212	214	106	107	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	205	102	102	60-140	0	
1,3-Dichloropropane	ug/L	ND	200	200	204	205	102	102	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	200	200	203	207	101	104	60-140	2	
2,2-Dichloropropane	ug/L	ND	200	200	217	215	109	107	60-140	1	
2-Chlorotoluene	ug/L	ND	200	200	206	211	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	198	202	99	101	60-140	2	
Benzene	ug/L	78.6	200	200	280	277	101	99	60-140	1	
Bromobenzene	ug/L	ND	200	200	200	204	100	102	60-140	2	
Bromochloromethane	ug/L	ND	200	200	208	213	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	200	200	194	194	97	97	60-140	0	
Bromoform	ug/L	ND	200	200	201	200	100	100	60-140	0	
Bromomethane	ug/L	ND	200	200	197	197	98	98	60-140	0	
Carbon tetrachloride	ug/L	ND	200	200	206	208	103	104	60-140	1	
Chlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
Chloroethane	ug/L	ND	200	200	171	174	86	87	60-140	1	
Chloroform	ug/L	ND	200	200	194	192	97	96	60-140	1	
Chloromethane	ug/L	ND	200	200	166	163	83	81	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	200	200	191	193	95	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	208	206	104	103	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	206	210	103	105	60-140	2	
Dibromomethane	ug/L	ND	200	200	211	210	105	105	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	162	157	81	79	60-140	3	
Diisopropyl ether	ug/L	14.7	200	200	194	194	90	90	60-140	0	
Ethylbenzene	ug/L	50.2	200	200	258	260	104	105	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	230	225	115	113	60-140	2	
Isopropylbenzene (Cumene)	ug/L	17.7	200	200	228	229	105	106	60-140	1	
m&p-Xylene	ug/L	51.0	400	400	460	464	102	103	60-140	1	
Methyl-tert-butyl ether	ug/L	1170	200	200	1390	1380	112	107	60-140	1	
Methylene Chloride	ug/L	ND	200	200	205	204	103	102	60-140	0	

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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.: 92510237

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	216	213	108	107	60-140	1	
n-Propylbenzene	ug/L	ND	200	200	210	215	105	107	60-140	2	
Naphthalene	ug/L	94.3	200	200	314	303	110	104	60-140	4	
o-Xylene	ug/L	ND	200	200	207	208	101	102	60-140	1	
sec-Butylbenzene	ug/L	ND	200	200	215	216	108	108	60-140	0	
Styrene	ug/L	ND	200	200	203	205	102	102	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	174	176	87	88	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	210	207	105	103	60-140	1	
Toluene	ug/L	5.8	200	200	206	209	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	204	203	102	101	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	200	200	202	202	101	101	60-140	0	
Trichloroethene	ug/L	ND	200	200	211	210	105	105	60-140	0	
Trichlorofluoromethane	ug/L	ND	200	200	197	200	98	100	60-140	2	
Vinyl chloride	ug/L	ND	200	200	178	174	89	87	60-140	2	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510237

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-L1-2448 Incident
Pace Project No.: 92510237

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510237001	**13926B_HC_RD_20201208**	MADEPV	1592110	MADEP VPH	1592110
92510237001	**13926B_HC_RD_20201208**	EPA 3010A	585802	EPA 6010D	585907
92510237001	**13926B_HC_RD_20201208**	SM 6200B	585755		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB **WO# : 92510237** r Number or

92510237

Y

Company: Apex Companies

Billing Information:

Address:

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address: 13926B Huntersville Concord Rd

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

** 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: Lab Sample # / Comments:
13926B_HC_RD_20201208	GW	G	12-8-20	1210				8	X	X	X	92510237 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: BB

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

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

Lab Tracking #: 2528993

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 92164

Cooler 1 Temp Upon Receipt: 5.6 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.5 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fritz / Apex	12-8-20 1345	CDH PACE HVL	12/8/20 1345
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# : 92510237**

PM: AMB Due Date: 12/15/20

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 16, 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.: 92510240

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
- 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
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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.: 92510240

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
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SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92510240

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510240001	**14226_HC_RD_20201208**	MADEP VPH	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510240

Sample: 14226_HC_RD_20201208 **Lab ID: 92510240001** Collected: 12/08/20 10:00 Received: 12/08/20 13:45 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	12/15/20 14:18	12/15/20 14:18		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 14:18	12/15/20 14:18		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 14:18	12/15/20 14:18	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 14:18	12/15/20 14:18	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.8	%	70.0-130	1	12/15/20 14:18	12/15/20 14:18	615-59-8FID	
2,5-Dibromotoluene (PID)	92.9	%	70.0-130	1	12/15/20 14:18	12/15/20 14:18	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	12/10/20 01:56	12/12/20 11:30	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 02:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 02:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 02:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 02:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 02:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 02:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 02:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 02:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 02:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 02:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/10/20 02:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 02:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 02:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 02:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 02:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 02:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 02:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 02:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 02:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 02:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 02:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 02:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 02:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 02:45	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510240

Sample: 14226_HC_RD_20201208 **Lab ID: 92510240001** Collected: 12/08/20 10:00 Received: 12/08/20 13:45 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		12/10/20 02:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 02:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 02:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 02:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 02:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 02:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 02:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 02:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 02:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 02:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 02:45	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 02:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 02:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 02:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 02:45	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 02:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 02:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 02:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 02:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 02:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 02:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 02:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 02:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 02:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 02:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 02:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 02:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 02:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/10/20 02:45	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/10/20 02:45	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/10/20 02:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510240

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510240001

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510240001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	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

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510240

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92510240001

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510240001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	95	93	75-125	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510240

QC Batch: 585755
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510240001

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510240001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
2,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
2-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
4-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
Benzene	ug/L	ND	0.50	12/09/20 22:51	
Bromobenzene	ug/L	ND	0.50	12/09/20 22:51	
Bromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromodichloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromoform	ug/L	ND	0.50	12/09/20 22:51	
Bromomethane	ug/L	ND	5.0	12/09/20 22:51	
Carbon tetrachloride	ug/L	ND	0.50	12/09/20 22:51	
Chlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
Chloroethane	ug/L	ND	1.0	12/09/20 22:51	
Chloroform	ug/L	ND	0.50	12/09/20 22:51	
Chloromethane	ug/L	ND	1.0	12/09/20 22:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Dibromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Dibromomethane	ug/L	ND	0.50	12/09/20 22:51	
Dichlorodifluoromethane	ug/L	ND	0.50	12/09/20 22:51	
Diisopropyl ether	ug/L	ND	0.50	12/09/20 22:51	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510240

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510240001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/09/20 22:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/09/20 22:51	
m&p-Xylene	ug/L	ND	1.0	12/09/20 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/09/20 22:51	
Methylene Chloride	ug/L	ND	2.0	12/09/20 22:51	
n-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
n-Propylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Naphthalene	ug/L	ND	2.0	12/09/20 22:51	
o-Xylene	ug/L	ND	0.50	12/09/20 22:51	
sec-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Styrene	ug/L	ND	0.50	12/09/20 22:51	
tert-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Tetrachloroethene	ug/L	ND	0.50	12/09/20 22:51	
Toluene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Trichloroethene	ug/L	ND	0.50	12/09/20 22:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/09/20 22:51	
Vinyl chloride	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/09/20 22:51	
4-Bromofluorobenzene (S)	%	98	70-130	12/09/20 22:51	
Toluene-d8 (S)	%	100	70-130	12/09/20 22:51	

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.2	102	60-140	
1,1-Dichloroethane	ug/L	50	49.5	99	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	48.6	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	51.5	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	45.6	91	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	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.: 92510240

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.8	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.5	101	60-140	
2,2-Dichloropropane	ug/L	50	50.3	101	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.8	96	60-140	
Benzene	ug/L	50	48.8	98	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.8	106	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	60-140	
Chlorobenzene	ug/L	50	51.1	102	60-140	
Chloroethane	ug/L	50	32.2	64	60-140	
Chloroform	ug/L	50	47.0	94	60-140	
Chloromethane	ug/L	50	42.4	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	60-140	
Dibromochloromethane	ug/L	50	53.4	107	60-140	
Dibromomethane	ug/L	50	54.3	109	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.4	95	60-140	
n-Butylbenzene	ug/L	50	48.5	97	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	55.1	110	60-140	
o-Xylene	ug/L	50	50.9	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	52.1	104	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Trichloroethene	ug/L	50	51.2	102	60-140	
Trichlorofluoromethane	ug/L	50	40.7	81	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92510240

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 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	200	200	205	204	102	102	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	200	200	203	205	102	102	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	199	195	99	98	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	200	101	100	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	202	204	101	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	200	200	218	214	109	107	60-140	2	
1,1-Dichloropropene	ug/L	ND	200	200	207	207	103	104	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	208	112	104	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	200	200	198	200	99	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	218	208	109	104	60-140	5	
1,2,4-Trimethylbenzene	ug/L	55.3	200	200	259	262	102	103	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	215	217	108	109	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	199	199	100	100	60-140	0	
1,2-Dichlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
1,2-Dichloroethane	ug/L	ND	200	200	186	184	93	92	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	199	197	100	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	212	214	106	107	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	205	102	102	60-140	0	
1,3-Dichloropropane	ug/L	ND	200	200	204	205	102	102	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	200	200	203	207	101	104	60-140	2	
2,2-Dichloropropane	ug/L	ND	200	200	217	215	109	107	60-140	1	
2-Chlorotoluene	ug/L	ND	200	200	206	211	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	198	202	99	101	60-140	2	
Benzene	ug/L	78.6	200	200	280	277	101	99	60-140	1	
Bromobenzene	ug/L	ND	200	200	200	204	100	102	60-140	2	
Bromochloromethane	ug/L	ND	200	200	208	213	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	200	200	194	194	97	97	60-140	0	
Bromoform	ug/L	ND	200	200	201	200	100	100	60-140	0	
Bromomethane	ug/L	ND	200	200	197	197	98	98	60-140	0	
Carbon tetrachloride	ug/L	ND	200	200	206	208	103	104	60-140	1	
Chlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
Chloroethane	ug/L	ND	200	200	171	174	86	87	60-140	1	
Chloroform	ug/L	ND	200	200	194	192	97	96	60-140	1	
Chloromethane	ug/L	ND	200	200	166	163	83	81	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	200	200	191	193	95	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	208	206	104	103	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	206	210	103	105	60-140	2	
Dibromomethane	ug/L	ND	200	200	211	210	105	105	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	162	157	81	79	60-140	3	
Diisopropyl ether	ug/L	14.7	200	200	194	194	90	90	60-140	0	
Ethylbenzene	ug/L	50.2	200	200	258	260	104	105	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	230	225	115	113	60-140	2	
Isopropylbenzene (Cumene)	ug/L	17.7	200	200	228	229	105	106	60-140	1	
m&p-Xylene	ug/L	51.0	400	400	460	464	102	103	60-140	1	
Methyl-tert-butyl ether	ug/L	1170	200	200	1390	1380	112	107	60-140	1	
Methylene Chloride	ug/L	ND	200	200	205	204	103	102	60-140	0	

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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.: 92510240

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	216	213	108	107	60-140	1	
n-Propylbenzene	ug/L	ND	200	200	210	215	105	107	60-140	2	
Naphthalene	ug/L	94.3	200	200	314	303	110	104	60-140	4	
o-Xylene	ug/L	ND	200	200	207	208	101	102	60-140	1	
sec-Butylbenzene	ug/L	ND	200	200	215	216	108	108	60-140	0	
Styrene	ug/L	ND	200	200	203	205	102	102	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	174	176	87	88	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	210	207	105	103	60-140	1	
Toluene	ug/L	5.8	200	200	206	209	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	204	203	102	101	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	200	200	202	202	101	101	60-140	0	
Trichloroethene	ug/L	ND	200	200	211	210	105	105	60-140	0	
Trichlorofluoromethane	ug/L	ND	200	200	197	200	98	100	60-140	2	
Vinyl chloride	ug/L	ND	200	200	178	174	89	87	60-140	2	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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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.: 92510240

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-L1-2448 Incident
Pace Project No.: 92510240

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510240001	**14226_HC_RD_20201208**	MADEPV	1592110	MADEP VPH	1592110
92510240001	**14226_HC_RD_20201208**	EPA 3010A	585802	EPA 6010D	585907
92510240001	**14226_HC_RD_20201208**	SM 6200B	585755		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92510240

92510240

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 14226 Hunterstown Rd Concord Rd
Customer Project Name/Number: 2020-CI-2448 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:

* 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
14226_HC_RD_20201208	GW	G	12-8-20	1000				8	X	X	X

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

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y (N) NA
Custody Signatures Present	Y N (NA)
Collector 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:

92510240
001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BB

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

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

Lab Tracking #: 2561077

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92to64
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-8-20 1345	LDH PACE HVL	12/8/20 1345
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# : 92510240

PM: AMB Due Date: 12/15/20

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	\				\	\	\	\			\		\	\	\										\	\			
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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 16, 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.: 92510243

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
- 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.: 92510243

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: 2020-L1-2448 Incident
Pace Project No.: 92510243

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510243001	**13926A_HC_RD_20201208**	MADEP VPH	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
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510243

Sample: 13926A_HC_RD_20201208 **Lab ID: 92510243001** Collected: 12/08/20 12:50 Received: 12/08/20 13:45 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	12/15/20 16:30	12/15/20 16:30		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 16:30	12/15/20 16:30		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 16:30	12/15/20 16:30	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 16:30	12/15/20 16:30	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	12/15/20 16:30	12/15/20 16:30	615-59-8FID	
2,5-Dibromotoluene (PID)	92.2	%	70.0-130	1	12/15/20 16:30	12/15/20 16:30	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	12/10/20 01:56	12/12/20 11:40	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 03:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 03:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 03:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 03:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 03:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 03:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 03:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 03:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 03:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 03:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 03:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 03:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/10/20 03:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 03:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 03:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 03:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 03:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 03:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 03:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 03:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 03:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 03:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 03:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 03:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 03:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 03:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 03:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 03:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 03:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 03:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 03:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 03:03	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510243

Sample: 13926A_HC_RD_20201208 **Lab ID: 92510243001** Collected: 12/08/20 12:50 Received: 12/08/20 13:45 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		12/10/20 03:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 03:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 03:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 03:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 03:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 03:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 03:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 03:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 03:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 03:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 03:03	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 03:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 03:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 03:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 03:03	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 03:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 03:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 03:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 03:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 03:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 03:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 03:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 03:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 03:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 03:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 03:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 03:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 03:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/10/20 03:03	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/10/20 03:03	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/10/20 03:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510243

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92510243001

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510243001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510243

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92510243001

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510243001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	95	93	75-125	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510243

QC Batch: 585755
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510243001

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510243001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
2,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
2-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
4-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
Benzene	ug/L	ND	0.50	12/09/20 22:51	
Bromobenzene	ug/L	ND	0.50	12/09/20 22:51	
Bromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromodichloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromoform	ug/L	ND	0.50	12/09/20 22:51	
Bromomethane	ug/L	ND	5.0	12/09/20 22:51	
Carbon tetrachloride	ug/L	ND	0.50	12/09/20 22:51	
Chlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
Chloroethane	ug/L	ND	1.0	12/09/20 22:51	
Chloroform	ug/L	ND	0.50	12/09/20 22:51	
Chloromethane	ug/L	ND	1.0	12/09/20 22:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Dibromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Dibromomethane	ug/L	ND	0.50	12/09/20 22:51	
Dichlorodifluoromethane	ug/L	ND	0.50	12/09/20 22:51	
Diisopropyl ether	ug/L	ND	0.50	12/09/20 22:51	

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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.: 92510243

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510243001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/09/20 22:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/09/20 22:51	
m&p-Xylene	ug/L	ND	1.0	12/09/20 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/09/20 22:51	
Methylene Chloride	ug/L	ND	2.0	12/09/20 22:51	
n-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
n-Propylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Naphthalene	ug/L	ND	2.0	12/09/20 22:51	
o-Xylene	ug/L	ND	0.50	12/09/20 22:51	
sec-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Styrene	ug/L	ND	0.50	12/09/20 22:51	
tert-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Tetrachloroethene	ug/L	ND	0.50	12/09/20 22:51	
Toluene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Trichloroethene	ug/L	ND	0.50	12/09/20 22:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/09/20 22:51	
Vinyl chloride	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/09/20 22:51	
4-Bromofluorobenzene (S)	%	98	70-130	12/09/20 22:51	
Toluene-d8 (S)	%	100	70-130	12/09/20 22:51	

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.2	102	60-140	
1,1-Dichloroethane	ug/L	50	49.5	99	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	48.6	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	51.5	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	45.6	91	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92510243

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.8	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.5	101	60-140	
2,2-Dichloropropane	ug/L	50	50.3	101	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.8	96	60-140	
Benzene	ug/L	50	48.8	98	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.8	106	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	60-140	
Chlorobenzene	ug/L	50	51.1	102	60-140	
Chloroethane	ug/L	50	32.2	64	60-140	
Chloroform	ug/L	50	47.0	94	60-140	
Chloromethane	ug/L	50	42.4	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	60-140	
Dibromochloromethane	ug/L	50	53.4	107	60-140	
Dibromomethane	ug/L	50	54.3	109	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.4	95	60-140	
n-Butylbenzene	ug/L	50	48.5	97	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	55.1	110	60-140	
o-Xylene	ug/L	50	50.9	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	52.1	104	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Trichloroethene	ug/L	50	51.2	102	60-140	
Trichlorofluoromethane	ug/L	50	40.7	81	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	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: 2020-L1-2448 Incident
Pace Project No.: 92510243

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 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	200	200	205	204	102	102	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	200	200	203	205	102	102	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	199	195	99	98	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	200	101	100	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	202	204	101	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	200	200	218	214	109	107	60-140	2	
1,1-Dichloropropene	ug/L	ND	200	200	207	207	103	104	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	208	112	104	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	200	200	198	200	99	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	218	208	109	104	60-140	5	
1,2,4-Trimethylbenzene	ug/L	55.3	200	200	259	262	102	103	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	215	217	108	109	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	199	199	100	100	60-140	0	
1,2-Dichlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
1,2-Dichloroethane	ug/L	ND	200	200	186	184	93	92	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	199	197	100	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	212	214	106	107	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	205	102	102	60-140	0	
1,3-Dichloropropane	ug/L	ND	200	200	204	205	102	102	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	200	200	203	207	101	104	60-140	2	
2,2-Dichloropropane	ug/L	ND	200	200	217	215	109	107	60-140	1	
2-Chlorotoluene	ug/L	ND	200	200	206	211	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	198	202	99	101	60-140	2	
Benzene	ug/L	78.6	200	200	280	277	101	99	60-140	1	
Bromobenzene	ug/L	ND	200	200	200	204	100	102	60-140	2	
Bromochloromethane	ug/L	ND	200	200	208	213	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	200	200	194	194	97	97	60-140	0	
Bromoform	ug/L	ND	200	200	201	200	100	100	60-140	0	
Bromomethane	ug/L	ND	200	200	197	197	98	98	60-140	0	
Carbon tetrachloride	ug/L	ND	200	200	206	208	103	104	60-140	1	
Chlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
Chloroethane	ug/L	ND	200	200	171	174	86	87	60-140	1	
Chloroform	ug/L	ND	200	200	194	192	97	96	60-140	1	
Chloromethane	ug/L	ND	200	200	166	163	83	81	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	200	200	191	193	95	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	208	206	104	103	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	206	210	103	105	60-140	2	
Dibromomethane	ug/L	ND	200	200	211	210	105	105	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	162	157	81	79	60-140	3	
Diisopropyl ether	ug/L	14.7	200	200	194	194	90	90	60-140	0	
Ethylbenzene	ug/L	50.2	200	200	258	260	104	105	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	230	225	115	113	60-140	2	
Isopropylbenzene (Cumene)	ug/L	17.7	200	200	228	229	105	106	60-140	1	
m&p-Xylene	ug/L	51.0	400	400	460	464	102	103	60-140	1	
Methyl-tert-butyl ether	ug/L	1170	200	200	1390	1380	112	107	60-140	1	
Methylene Chloride	ug/L	ND	200	200	205	204	103	102	60-140	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: 2020-L1-2448 Incident
Pace Project No.: 92510243

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	216	213	108	107	60-140	1	
n-Propylbenzene	ug/L	ND	200	200	210	215	105	107	60-140	2	
Naphthalene	ug/L	94.3	200	200	314	303	110	104	60-140	4	
o-Xylene	ug/L	ND	200	200	207	208	101	102	60-140	1	
sec-Butylbenzene	ug/L	ND	200	200	215	216	108	108	60-140	0	
Styrene	ug/L	ND	200	200	203	205	102	102	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	174	176	87	88	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	210	207	105	103	60-140	1	
Toluene	ug/L	5.8	200	200	206	209	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	204	203	102	101	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	200	200	202	202	101	101	60-140	0	
Trichloroethene	ug/L	ND	200	200	211	210	105	105	60-140	0	
Trichlorofluoromethane	ug/L	ND	200	200	197	200	98	100	60-140	2	
Vinyl chloride	ug/L	ND	200	200	178	174	89	87	60-140	2	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92510243

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-L1-2448 Incident
Pace Project No.: 92510243

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510243001	**13926A_HC_RD_20201208**	MADEPV	1592110	MADEP VPH	1592110
92510243001	**13926A_HC_RD_20201208**	EPA 3010A	585802	EPA 6010D	585907
92510243001	**13926A_HC_RD_20201208**	SM 6200B	585755		

WO# : 92510243

92510243

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

Company: Apex Companies

Address:

Billing Information:

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-2418 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)

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_SD_20201208	GW	G	12-8-20	1250				8	X	X	X							

Container Preservative Type

Lab Project Manager:

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

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

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

LAB USE ONLY:
Lab Sample # / Comments:

92510243
001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: BB

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

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

Lab Tracking #: 2561078

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92 to 64
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-8-20 1345	LDH PACE HVL	1345 12/8/20
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: _____

*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#: 92510243

PM: AMB Due Date: 12/15/20

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 16, 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.: 92510245

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
- 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.: 92510245

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: 2020-LI-2448 Incident
Pace Project No.: 92510245

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92510245001	**DUP-1**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92510245002	**FB-1**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92510245003	**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
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92510245

Sample: DUP-1 **Lab ID: 92510245001** Collected: 12/08/20 00:00 Received: 12/08/20 13:45 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	12/15/20 17:04	12/15/20 17:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 17:04	12/15/20 17:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 17:04	12/15/20 17:04	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 17:04	12/15/20 17:04	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.3	%	70.0-130	1	12/15/20 17:04	12/15/20 17:04	615-59-8FID	
2,5-Dibromotoluene (PID)	94.4	%	70.0-130	1	12/15/20 17:04	12/15/20 17:04	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	12/10/20 01:56	12/12/20 11:44	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/10/20 03:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/10/20 03:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/10/20 03:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/10/20 03:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/10/20 03:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/10/20 03:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/10/20 03:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/10/20 03:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/10/20 03:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/10/20 03:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/10/20 03:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/10/20 03:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/10/20 03:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/10/20 03:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 03:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/10/20 03:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/10/20 03:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/10/20 03:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/10/20 03:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/10/20 03:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 03:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 03:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/10/20 03:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/10/20 03:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/10/20 03:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/10/20 03:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/10/20 03:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 03:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/10/20 03:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 03:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/10/20 03:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/10/20 03:21	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: 2020-LI-2448 Incident
Pace Project No.: 92510245

Sample: DUP-1 **Lab ID: 92510245001** Collected: 12/08/20 00:00 Received: 12/08/20 13:45 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		12/10/20 03:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 03:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/10/20 03:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/10/20 03:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/10/20 03:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/10/20 03:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/10/20 03:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/10/20 03:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/10/20 03:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/10/20 03:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/10/20 03:21	103-65-1	
Styrene	ND	ug/L	0.50	1		12/10/20 03:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 03:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/10/20 03:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/10/20 03:21	127-18-4	
Toluene	ND	ug/L	0.50	1		12/10/20 03:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 03:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/10/20 03:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/10/20 03:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/10/20 03:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/10/20 03:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/10/20 03:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/10/20 03:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 03:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/10/20 03:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/10/20 03:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/10/20 03:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/10/20 03:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/10/20 03:21	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/10/20 03:21	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		12/10/20 03:21	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: 2020-LI-2448 Incident
Pace Project No.: 92510245

Sample: FB-1 **Lab ID: 92510245002** Collected: 12/08/20 00:00 Received: 12/08/20 13:45 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	12/15/20 13:45	12/15/20 13:45		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/15/20 13:45	12/15/20 13:45		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/15/20 13:45	12/15/20 13:45	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/15/20 13:45	12/15/20 13:45	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.7	%	70.0-130	1	12/15/20 13:45	12/15/20 13:45	615-59-8FID	
2,5-Dibromotoluene (PID)	87.5	%	70.0-130	1	12/15/20 13:45	12/15/20 13:45	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	12/10/20 01:56	12/12/20 11:47	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/09/20 23:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/09/20 23:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/09/20 23:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/09/20 23:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/09/20 23:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/09/20 23:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/09/20 23:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/09/20 23:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/09/20 23:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/09/20 23:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/09/20 23:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/09/20 23:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/09/20 23:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/09/20 23:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/09/20 23:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/09/20 23:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/09/20 23:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/09/20 23:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/09/20 23:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/09/20 23:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/09/20 23:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/09/20 23:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/09/20 23:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/09/20 23:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/09/20 23:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/09/20 23:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/09/20 23:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/09/20 23:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/09/20 23:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/09/20 23:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/09/20 23:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/09/20 23:09	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: 2020-LI-2448 Incident
Pace Project No.: 92510245

Sample: FB-1 **Lab ID: 92510245002** Collected: 12/08/20 00:00 Received: 12/08/20 13:45 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		12/09/20 23:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/09/20 23:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/09/20 23:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/09/20 23:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/09/20 23:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/09/20 23:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/09/20 23:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/09/20 23:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/09/20 23:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/09/20 23:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/09/20 23:09	103-65-1	
Styrene	ND	ug/L	0.50	1		12/09/20 23:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/09/20 23:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/09/20 23:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/09/20 23:09	127-18-4	
Toluene	ND	ug/L	0.50	1		12/09/20 23:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/09/20 23:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/09/20 23:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/09/20 23:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/09/20 23:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/09/20 23:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/09/20 23:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/09/20 23:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/09/20 23:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/09/20 23:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/09/20 23:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/09/20 23:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/09/20 23:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/09/20 23:09	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/09/20 23:09	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/09/20 23:09	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: 2020-LI-2448 Incident
Pace Project No.: 92510245

Sample: Trip Blank **Lab ID: 92510245003** Collected: 12/08/20 00:00 Received: 12/08/20 13:45 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		12/09/20 23:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/09/20 23:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/09/20 23:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/09/20 23:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/09/20 23:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/09/20 23:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/09/20 23:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/09/20 23:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/09/20 23:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/09/20 23:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/09/20 23:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/09/20 23:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/09/20 23:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/09/20 23:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/09/20 23:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/09/20 23:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/09/20 23:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/09/20 23:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/09/20 23:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/09/20 23:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/09/20 23:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/09/20 23:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/09/20 23:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/09/20 23:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/09/20 23:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/09/20 23:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/09/20 23:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/09/20 23:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/09/20 23:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/09/20 23:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/09/20 23:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/09/20 23:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/09/20 23:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/09/20 23:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/09/20 23:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/09/20 23:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/09/20 23:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/09/20 23:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/09/20 23:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/09/20 23:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/09/20 23:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/09/20 23:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/09/20 23:27	103-65-1	
Styrene	ND	ug/L	0.50	1		12/09/20 23:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/09/20 23:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/09/20 23:27	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 Incident
Pace Project No.: 92510245

Sample: Trip Blank **Lab ID: 92510245003** Collected: 12/08/20 00:00 Received: 12/08/20 13:45 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		12/09/20 23:27	127-18-4	
Toluene	ND	ug/L	0.50	1		12/09/20 23:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/09/20 23:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/09/20 23:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/09/20 23:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/09/20 23:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/09/20 23:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/09/20 23:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/09/20 23:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/09/20 23:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/09/20 23:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/09/20 23:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/09/20 23:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/09/20 23:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/09/20 23:27	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/09/20 23:27	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		12/09/20 23:27	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-LI-2448 Incident
Pace Project No.: 92510245

QC Batch: 1592110
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92510245001, 92510245002

METHOD BLANK: R3603840-3 Matrix: Water
Associated Lab Samples: 92510245001, 92510245002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/15/20 13:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/15/20 13:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/15/20 13:12	
Total VPH	ug/L	ND	100	12/15/20 13:12	
2,5-Dibromotoluene (FID)	%	89.7	70.0-130	12/15/20 13:12	
2,5-Dibromotoluene (PID)	%	88.7	70.0-130	12/15/20 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3603840-1 R3603840-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1290	106	107	70.0-130	1.56	25	
Aliphatic (C09-C12)	ug/L	1400	1370	1410	97.9	101	70.0-130	2.88	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	195	197	97.5	98.5	70.0-130	1.02	25	
Total VPH	ug/L	2800	2840	2900	101	104	70.0-130	2.09	25	
2,5-Dibromotoluene (FID)	%				91.0	93.9	70.0-130			
2,5-Dibromotoluene (PID)	%				92.4	92.9	70.0-130			

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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.: 92510245

QC Batch: 585802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92510245001, 92510245002

METHOD BLANK: 3096496 Matrix: Water
Associated Lab Samples: 92510245001, 92510245002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/11/20 16:35	

LABORATORY CONTROL SAMPLE: 3096497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096498 3096499

Parameter	Units	92510208001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	469	95	93	75-125	2	

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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.: 92510245

QC Batch: 585755 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92510245001, 92510245002, 92510245003

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510245001, 92510245002, 92510245003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
1,1-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/09/20 22:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloroethane	ug/L	ND	0.50	12/09/20 22:51	
1,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
1,3-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
2,2-Dichloropropane	ug/L	ND	0.50	12/09/20 22:51	
2-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
4-Chlorotoluene	ug/L	ND	0.50	12/09/20 22:51	
Benzene	ug/L	ND	0.50	12/09/20 22:51	
Bromobenzene	ug/L	ND	0.50	12/09/20 22:51	
Bromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromodichloromethane	ug/L	ND	0.50	12/09/20 22:51	
Bromoform	ug/L	ND	0.50	12/09/20 22:51	
Bromomethane	ug/L	ND	5.0	12/09/20 22:51	
Carbon tetrachloride	ug/L	ND	0.50	12/09/20 22:51	
Chlorobenzene	ug/L	ND	0.50	12/09/20 22:51	
Chloroethane	ug/L	ND	1.0	12/09/20 22:51	
Chloroform	ug/L	ND	0.50	12/09/20 22:51	
Chloromethane	ug/L	ND	1.0	12/09/20 22:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Dibromochloromethane	ug/L	ND	0.50	12/09/20 22:51	
Dibromomethane	ug/L	ND	0.50	12/09/20 22:51	
Dichlorodifluoromethane	ug/L	ND	0.50	12/09/20 22:51	
Diisopropyl ether	ug/L	ND	0.50	12/09/20 22:51	

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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.: 92510245

METHOD BLANK: 3095920 Matrix: Water
Associated Lab Samples: 92510245001, 92510245002, 92510245003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/09/20 22:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/09/20 22:51	
m&p-Xylene	ug/L	ND	1.0	12/09/20 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/09/20 22:51	
Methylene Chloride	ug/L	ND	2.0	12/09/20 22:51	
n-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
n-Propylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Naphthalene	ug/L	ND	2.0	12/09/20 22:51	
o-Xylene	ug/L	ND	0.50	12/09/20 22:51	
sec-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Styrene	ug/L	ND	0.50	12/09/20 22:51	
tert-Butylbenzene	ug/L	ND	0.50	12/09/20 22:51	
Tetrachloroethene	ug/L	ND	0.50	12/09/20 22:51	
Toluene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/09/20 22:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/09/20 22:51	
Trichloroethene	ug/L	ND	0.50	12/09/20 22:51	
Trichlorofluoromethane	ug/L	ND	1.0	12/09/20 22:51	
Vinyl chloride	ug/L	ND	1.0	12/09/20 22:51	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/09/20 22:51	
4-Bromofluorobenzene (S)	%	98	70-130	12/09/20 22:51	
Toluene-d8 (S)	%	100	70-130	12/09/20 22:51	

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	48.9	98	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.2	102	60-140	
1,1-Dichloroethane	ug/L	50	49.5	99	60-140	
1,1-Dichloroethene	ug/L	50	50.5	101	60-140	
1,1-Dichloropropene	ug/L	50	48.6	97	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	60-140	
1,2,3-Trichloropropane	ug/L	50	51.5	103	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	60-140	
1,2-Dichlorobenzene	ug/L	50	51.1	102	60-140	
1,2-Dichloroethane	ug/L	50	45.6	91	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	60-140	

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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.: 92510245

LABORATORY CONTROL SAMPLE: 3095921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.8	104	60-140	
1,4-Dichlorobenzene	ug/L	50	50.5	101	60-140	
2,2-Dichloropropane	ug/L	50	50.3	101	60-140	
2-Chlorotoluene	ug/L	50	50.0	100	60-140	
4-Chlorotoluene	ug/L	50	47.8	96	60-140	
Benzene	ug/L	50	48.8	98	60-140	
Bromobenzene	ug/L	50	48.5	97	60-140	
Bromochloromethane	ug/L	50	52.8	106	60-140	
Bromodichloromethane	ug/L	50	48.4	97	60-140	
Bromoform	ug/L	50	52.4	105	60-140	
Bromomethane	ug/L	50	39.7	79	60-140	
Carbon tetrachloride	ug/L	50	49.1	98	60-140	
Chlorobenzene	ug/L	50	51.1	102	60-140	
Chloroethane	ug/L	50	32.2	64	60-140	
Chloroform	ug/L	50	47.0	94	60-140	
Chloromethane	ug/L	50	42.4	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.1	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	60-140	
Dibromochloromethane	ug/L	50	53.4	107	60-140	
Dibromomethane	ug/L	50	54.3	109	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	50.5	101	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.7	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.4	95	60-140	
n-Butylbenzene	ug/L	50	48.5	97	60-140	
n-Propylbenzene	ug/L	50	47.5	95	60-140	
Naphthalene	ug/L	50	55.1	110	60-140	
o-Xylene	ug/L	50	50.9	102	60-140	
sec-Butylbenzene	ug/L	50	48.2	96	60-140	
Styrene	ug/L	50	52.1	104	60-140	
tert-Butylbenzene	ug/L	50	40.0	80	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	49.8	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Trichloroethene	ug/L	50	51.2	102	60-140	
Trichlorofluoromethane	ug/L	50	40.7	81	60-140	
Vinyl chloride	ug/L	50	44.4	89	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92510245

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 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	200	200	205	204	102	102	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	200	200	203	205	102	102	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	199	195	99	98	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	200	200	202	200	101	100	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	202	204	101	102	60-140	1	
1,1-Dichloroethene	ug/L	ND	200	200	218	214	109	107	60-140	2	
1,1-Dichloropropene	ug/L	ND	200	200	207	207	103	104	60-140	0	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	208	112	104	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	200	200	198	200	99	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	218	208	109	104	60-140	5	
1,2,4-Trimethylbenzene	ug/L	55.3	200	200	259	262	102	103	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	215	217	108	109	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	199	199	100	100	60-140	0	
1,2-Dichlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
1,2-Dichloroethane	ug/L	ND	200	200	186	184	93	92	60-140	1	
1,2-Dichloropropane	ug/L	ND	200	200	199	197	100	98	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	212	214	106	107	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	200	200	205	205	102	102	60-140	0	
1,3-Dichloropropane	ug/L	ND	200	200	204	205	102	102	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	200	200	203	207	101	104	60-140	2	
2,2-Dichloropropane	ug/L	ND	200	200	217	215	109	107	60-140	1	
2-Chlorotoluene	ug/L	ND	200	200	206	211	103	105	60-140	2	
4-Chlorotoluene	ug/L	ND	200	200	198	202	99	101	60-140	2	
Benzene	ug/L	78.6	200	200	280	277	101	99	60-140	1	
Bromobenzene	ug/L	ND	200	200	200	204	100	102	60-140	2	
Bromochloromethane	ug/L	ND	200	200	208	213	104	106	60-140	2	
Bromodichloromethane	ug/L	ND	200	200	194	194	97	97	60-140	0	
Bromoform	ug/L	ND	200	200	201	200	100	100	60-140	0	
Bromomethane	ug/L	ND	200	200	197	197	98	98	60-140	0	
Carbon tetrachloride	ug/L	ND	200	200	206	208	103	104	60-140	1	
Chlorobenzene	ug/L	ND	200	200	205	206	102	103	60-140	1	
Chloroethane	ug/L	ND	200	200	171	174	86	87	60-140	1	
Chloroform	ug/L	ND	200	200	194	192	97	96	60-140	1	
Chloromethane	ug/L	ND	200	200	166	163	83	81	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	200	200	191	193	95	97	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	208	206	104	103	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	206	210	103	105	60-140	2	
Dibromomethane	ug/L	ND	200	200	211	210	105	105	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	162	157	81	79	60-140	3	
Diisopropyl ether	ug/L	14.7	200	200	194	194	90	90	60-140	0	
Ethylbenzene	ug/L	50.2	200	200	258	260	104	105	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	230	225	115	113	60-140	2	
Isopropylbenzene (Cumene)	ug/L	17.7	200	200	228	229	105	106	60-140	1	
m&p-Xylene	ug/L	51.0	400	400	460	464	102	103	60-140	1	
Methyl-tert-butyl ether	ug/L	1170	200	200	1390	1380	112	107	60-140	1	
Methylene Chloride	ug/L	ND	200	200	205	204	103	102	60-140	0	

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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.: 92510245

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097020 3097021

Parameter	Units	92509606010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	216	213	108	107	60-140	1	
n-Propylbenzene	ug/L	ND	200	200	210	215	105	107	60-140	2	
Naphthalene	ug/L	94.3	200	200	314	303	110	104	60-140	4	
o-Xylene	ug/L	ND	200	200	207	208	101	102	60-140	1	
sec-Butylbenzene	ug/L	ND	200	200	215	216	108	108	60-140	0	
Styrene	ug/L	ND	200	200	203	205	102	102	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	174	176	87	88	60-140	1	
Tetrachloroethene	ug/L	ND	200	200	210	207	105	103	60-140	1	
Toluene	ug/L	5.8	200	200	206	209	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	204	203	102	101	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	200	200	202	202	101	101	60-140	0	
Trichloroethene	ug/L	ND	200	200	211	210	105	105	60-140	0	
Trichlorofluoromethane	ug/L	ND	200	200	197	200	98	100	60-140	2	
Vinyl chloride	ug/L	ND	200	200	178	174	89	87	60-140	2	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130		
4-Bromofluorobenzene (S)	%						100	100	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92510245

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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92510245

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92510245001	**DUP-1**	MADEPV	1592110	MADEP VPH	1592110
92510245002	**FB-1**	MADEPV	1592110	MADEP VPH	1592110
92510245001	**DUP-1**	EPA 3010A	585802	EPA 6010D	585907
92510245002	**FB-1**	EPA 3010A	585802	EPA 6010D	585907
92510245001	**DUP-1**	SM 6200B	585755		
92510245002	**FB-1**	SM 6200B	585755		
92510245003	**Trip Blank**	SM 6200B	585755		

WO# : 92510245

92510245

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ON ... er or

Company: Apex Companies

Billing Information:

Address:

Container Pr...

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address:

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

Customer Project Name/Number: 2020-11-2448 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

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 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
									92510245
DUP-1	GW	G	12-8-20	-				8	001
FB-1	OT	G	↓	-				8	002
Trip Blank	OT	-	↓	-				2	003

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: BB

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

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

Lab Tracking #: 2528994

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92 to 64
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Apex / Naomi Fretz	12-8-20 1345	LDH PACE HNL	12/8/20 1345
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# : 92510245**

PM: AMB Due Date: 12/15/20

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 ✓										1													
2						1 ✓										1													
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 22, 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.: 92511927

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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
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CERTIFICATIONS

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92511927

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.: 92511927

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92511927001	**14226_HC_RD_20201215**	MADEP VPH	ACG	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92511927

Sample: 14226_HC_RD_20201215 **Lab ID: 92511927001** Collected: 12/15/20 09:25 Received: 12/15/20 13:10 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	12/20/20 02:55	12/20/20 02:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/20/20 02:55	12/20/20 02:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/20/20 02:55	12/20/20 02:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/20/20 02:55	12/20/20 02:55	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.8	%	70.0-130	1	12/20/20 02:55	12/20/20 02:55	615-59-8FID	
2,5-Dibromotoluene (PID)	84.4	%	70.0-130	1	12/20/20 02:55	12/20/20 02:55	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	12/16/20 09:55	12/19/20 21:47	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/17/20 18:14	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/17/20 18:14	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/17/20 18:14	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/17/20 18:14	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/17/20 18:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/20 18:14	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:14	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:14	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:14	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/17/20 18:14	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/17/20 18:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/17/20 18:14	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/17/20 18:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/17/20 18:14	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 18:14	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 18:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/17/20 18:14	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/17/20 18:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/17/20 18:14	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/17/20 18:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/17/20 18:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/17/20 18:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/17/20 18:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:14	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: 2020-L1-2448 INCIDENT
Pace Project No.: 92511927

Sample: 14226_HC_RD_20201215 **Lab ID: 92511927001** Collected: 12/15/20 09:25 Received: 12/15/20 13:10 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		12/17/20 18:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 18:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 18:14	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/17/20 18:14	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/17/20 18:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/17/20 18:14	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/17/20 18:14	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/17/20 18:14	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/17/20 18:14	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/17/20 18:14	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/17/20 18:14	103-65-1	
Styrene	ND	ug/L	0.50	1		12/17/20 18:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 18:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 18:14	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/17/20 18:14	127-18-4	
Toluene	ND	ug/L	0.50	1		12/17/20 18:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 18:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 18:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/17/20 18:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/17/20 18:14	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/17/20 18:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/17/20 18:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/17/20 18:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 18:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 18:14	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/17/20 18:14	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/17/20 18:14	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/17/20 18:14	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/17/20 18:14	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/17/20 18:14	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		12/17/20 18:14	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.: 92511927

QC Batch: 1594916
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92511927001

METHOD BLANK: R3605530-3 Matrix: Water
Associated Lab Samples: 92511927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/19/20 22:30	
Aliphatic (C09-C12)	ug/L	ND	100	12/19/20 22:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/19/20 22:30	
Total VPH	ug/L	ND	100	12/19/20 22:30	
2,5-Dibromotoluene (FID)	%	85.1	70.0-130	12/19/20 22:30	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	12/19/20 22:30	

LABORATORY CONTROL SAMPLE & LCSD: R3605530-1 R3605530-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1330	1270	111	106	70.0-130	4.62	25	
Aliphatic (C09-C12)	ug/L	1400	1720	1670	123	119	70.0-130	2.95	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	228	222	114	111	70.0-130	2.67	25	
Total VPH	ug/L	2800	3280	3160	117	113	70.0-130	3.73	25	
2,5-Dibromotoluene (FID)	%				93.9	94.5	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	88.7	70.0-130			

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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.: 92511927

QC Batch: 587334
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92511927001

METHOD BLANK: 3104056 Matrix: Water
Associated Lab Samples: 92511927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/19/20 21:40	

LABORATORY CONTROL SAMPLE: 3104057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104058 3104059

Parameter	Units	92511927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	507	102	101	75-125	0	

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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.: 92511927

QC Batch: 587846
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92511927001

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92511927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
2,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
2-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
4-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
Benzene	ug/L	ND	0.50	12/17/20 13:12	
Bromobenzene	ug/L	ND	0.50	12/17/20 13:12	
Bromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromodichloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromoform	ug/L	ND	0.50	12/17/20 13:12	
Bromomethane	ug/L	ND	5.0	12/17/20 13:12	
Carbon tetrachloride	ug/L	ND	0.50	12/17/20 13:12	
Chlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
Chloroethane	ug/L	ND	1.0	12/17/20 13:12	
Chloroform	ug/L	ND	0.50	12/17/20 13:12	
Chloromethane	ug/L	ND	1.0	12/17/20 13:12	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Dibromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Dibromomethane	ug/L	ND	0.50	12/17/20 13:12	
Dichlorodifluoromethane	ug/L	ND	0.50	12/17/20 13:12	
Diisopropyl ether	ug/L	ND	0.50	12/17/20 13:12	

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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.: 92511927

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92511927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/17/20 13:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/17/20 13:12	
m&p-Xylene	ug/L	ND	1.0	12/17/20 13:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/17/20 13:12	
Methylene Chloride	ug/L	ND	2.0	12/17/20 13:12	
n-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
n-Propylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Naphthalene	ug/L	ND	2.0	12/17/20 13:12	
o-Xylene	ug/L	ND	0.50	12/17/20 13:12	
sec-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Styrene	ug/L	ND	0.50	12/17/20 13:12	
tert-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Tetrachloroethene	ug/L	ND	0.50	12/17/20 13:12	
Toluene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Trichloroethene	ug/L	ND	0.50	12/17/20 13:12	
Trichlorofluoromethane	ug/L	ND	1.0	12/17/20 13:12	
Vinyl chloride	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/20 13:12	
4-Bromofluorobenzene (S)	%	103	70-130	12/17/20 13:12	
Toluene-d8 (S)	%	103	70-130	12/17/20 13:12	

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.5	123	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	53.3	107	60-140	
1,1-Dichloropropene	ug/L	50	54.4	109	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	56.0	112	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.1	126	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.7	113	60-140	
1,2-Dichlorobenzene	ug/L	50	54.5	109	60-140	
1,2-Dichloroethane	ug/L	50	50.8	102	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	60-140	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92511927

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,3-Dichloropropane	ug/L	50	56.8	114	60-140	
1,4-Dichlorobenzene	ug/L	50	52.1	104	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	54.0	108	60-140	
4-Chlorotoluene	ug/L	50	54.5	109	60-140	
Benzene	ug/L	50	52.1	104	60-140	
Bromobenzene	ug/L	50	53.3	107	60-140	
Bromochloromethane	ug/L	50	52.0	104	60-140	
Bromodichloromethane	ug/L	50	51.6	103	60-140	
Bromoform	ug/L	50	60.2	120	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	58.8	118	60-140	
Chlorobenzene	ug/L	50	51.6	103	60-140	
Chloroethane	ug/L	50	46.8	94	60-140	
Chloroform	ug/L	50	51.8	104	60-140	
Chloromethane	ug/L	50	51.4	103	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	60-140	
Dibromochloromethane	ug/L	50	61.8	124	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.6	89	60-140	
Diisopropyl ether	ug/L	50	55.5	111	60-140	
Ethylbenzene	ug/L	50	51.2	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	52.8	106	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.9	110	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	54.2	108	60-140	
o-Xylene	ug/L	50	52.3	105	60-140	
sec-Butylbenzene	ug/L	50	53.5	107	60-140	
Styrene	ug/L	50	52.0	104	60-140	
tert-Butylbenzene	ug/L	50	46.8	94	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	51.1	102	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	49.2	98	60-140	
Vinyl chloride	ug/L	50	46.6	93	60-140	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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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.: 92511927

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 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	10000	10000	12700	12700	127	127	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	10000	10000	12600	13100	126	131	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	10000	11300	11900	113	119	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	10000	10000	11000	11600	110	116	60-140	6	
1,1-Dichloroethane	ug/L	ND	10000	10000	12100	12300	121	123	60-140	2	
1,1-Dichloroethene	ug/L	ND	10000	10000	12400	12600	124	126	60-140	2	
1,1-Dichloropropene	ug/L	ND	10000	10000	12400	12700	124	127	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	10000	10000	9940	11000	99	110	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	10000	10000	11300	11400	113	114	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	10000	10000	10000	10900	100	109	60-140	9	
1,2,4-Trimethylbenzene	ug/L	3800	10000	10000	14300	14700	105	109	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	10000	10000	12200	12600	122	126	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	10000	10000	11900	12000	119	120	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	10000	10000	11200	11400	112	114	60-140	2	
1,2-Dichloroethane	ug/L	ND	10000	10000	11300	11600	113	116	60-140	3	
1,2-Dichloropropane	ug/L	ND	10000	10000	11800	12500	118	125	60-140	5	
1,3,5-Trimethylbenzene	ug/L	946	10000	10000	11900	12300	110	113	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	10000	10000	10700	11300	107	113	60-140	6	
1,3-Dichloropropane	ug/L	ND	10000	10000	11900	12300	119	123	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	10000	10000	10800	11000	108	110	60-140	2	
2,2-Dichloropropane	ug/L	ND	10000	10000	11700	12600	117	126	60-140	7	
2-Chlorotoluene	ug/L	ND	10000	10000	11100	11000	111	110	60-140	1	
4-Chlorotoluene	ug/L	ND	10000	10000	11200	11800	112	118	60-140	5	
Benzene	ug/L	5530	10000	10000	17100	17500	116	119	60-140	2	
Bromobenzene	ug/L	ND	10000	10000	11100	11400	111	114	60-140	2	
Bromochloromethane	ug/L	ND	10000	10000	11200	11600	112	116	60-140	3	
Bromodichloromethane	ug/L	ND	10000	10000	10500	11400	105	114	60-140	8	
Bromoform	ug/L	ND	10000	10000	11200	12100	112	121	60-140	7	
Bromomethane	ug/L	ND	10000	10000	10000	11200	100	112	60-140	12	
Carbon tetrachloride	ug/L	ND	10000	10000	12800	13200	128	132	60-140	4	
Chlorobenzene	ug/L	ND	10000	10000	11000	11500	110	115	60-140	4	
Chloroethane	ug/L	ND	10000	10000	11800	11700	118	117	60-140	1	
Chloroform	ug/L	ND	10000	10000	11700	11700	117	117	60-140	0	
Chloromethane	ug/L	ND	10000	10000	10700	11100	107	111	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12400	119	124	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	10000	10000	11400	12100	114	121	60-140	6	
Dibromochloromethane	ug/L	ND	10000	10000	12100	12500	121	125	60-140	3	
Dibromomethane	ug/L	ND	10000	10000	10600	11000	106	110	60-140	4	
Dichlorodifluoromethane	ug/L	ND	10000	10000	9680	10100	97	101	60-140	4	
Diisopropyl ether	ug/L	ND	10000	10000	11800	12100	118	121	60-140	2	
Ethylbenzene	ug/L	5200	10000	10000	16500	17000	113	118	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	10000	10000	10000	11300	100	113	60-140	12	
Isopropylbenzene (Cumene)	ug/L	ND	10000	10000	11600	12000	114	118	60-140	3	
m&p-Xylene	ug/L	18100	20000	20000	40700	41900	113	119	60-140	3	
Methyl-tert-butyl ether	ug/L	323	10000	10000	11400	11800	111	115	60-140	3	
Methylene Chloride	ug/L	ND	10000	10000	11600	11900	116	119	60-140	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92511927

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	10000	10000	10700	11700	107	117	60-140	9	
n-Propylbenzene	ug/L	594	10000	10000	11900	12300	113	117	60-140	3	
Naphthalene	ug/L	ND	10000	10000	10900	11900	102	112	60-140	9	
o-Xylene	ug/L	9000	10000	10000	19900	20600	109	116	60-140	4	
sec-Butylbenzene	ug/L	ND	10000	10000	11200	11900	112	119	60-140	6	
Styrene	ug/L	ND	10000	10000	11500	11000	115	110	60-140	5	
tert-Butylbenzene	ug/L	ND	10000	10000	10000	10200	100	102	60-140	2	
Tetrachloroethene	ug/L	ND	10000	10000	10700	10900	107	109	60-140	2	
Toluene	ug/L	72300	10000	10000	80400	81200	81	89	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12700	119	127	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Trichloroethene	ug/L	ND	10000	10000	11500	11200	115	112	60-140	2	
Trichlorofluoromethane	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Vinyl chloride	ug/L	ND	10000	10000	10600	11100	106	111	60-140	5	
1,2-Dichloroethane-d4 (S)	%						105	107	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						99	101	70-130		

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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.: 92511927

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92511927

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92511927001	**14226_HC_RD_20201215**	MADEPV	1594916	MADEP VPH	1594916
92511927001	**14226_HC_RD_20201215**	EPA 3010A	587334	EPA 6010D	587370
92511927001	**14226_HC_RD_20201215**	SM 6200B	587846		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92511927

92511927

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: 2020-21-2448 Incident	State: NC County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #:
Collected By (print): Naomi Fritz	Purchase Order #: Quote #:
Collected By (signature): Naomi FZ	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: _____

** 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	MADEP VPH	Lead	Lab Sample # / Comments
14226.HC.RD.20201215	DW	G	12-15-20	0925				8	X	X	X	92511927 cel

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:
92511927 cel

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

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

Lab Tracking #: 2561316

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92106849
Cooler 1 Temp Upon Receipt: 4.5 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.4 oC
Comments:

Relinquished by/Company: (Signature) Naomi Fritz / Apex	Date/Time: 12.15.20 1310	Received by/Company: (Signature) S PACE HK	Date/Time: 12/15/20 1310
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

December 22, 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.: 92512027

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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.: 92512027

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
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident
Pace Project No.: 92512027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512027001	**13835_AC_RD_20201215**	MADEP VPH	ACG	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
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92512027

Sample: 13835_AC_RD_20201215 **Lab ID: 92512027001** Collected: 12/15/20 10:20 Received: 12/15/20 13:10 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	12/19/20 23:36	12/19/20 23:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/19/20 23:36	12/19/20 23:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/19/20 23:36	12/19/20 23:36	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/19/20 23:36	12/19/20 23:36	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.3	%	70.0-130	1	12/19/20 23:36	12/19/20 23:36	615-59-8FID	
2,5-Dibromotoluene (PID)	81.0	%	70.0-130	1	12/19/20 23:36	12/19/20 23:36	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	12/16/20 09:55	12/19/20 22:13	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/17/20 18:32	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/17/20 18:32	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/17/20 18:32	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/17/20 18:32	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/17/20 18:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/20 18:32	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:32	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:32	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:32	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/17/20 18:32	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/17/20 18:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/17/20 18:32	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/17/20 18:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/17/20 18:32	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 18:32	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 18:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/17/20 18:32	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/17/20 18:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/17/20 18:32	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/17/20 18:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/17/20 18:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/17/20 18:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/17/20 18:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:32	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-LI-2448 Incident
Pace Project No.: 92512027

Sample: 13835_AC_RD_20201215 **Lab ID: 92512027001** Collected: 12/15/20 10:20 Received: 12/15/20 13:10 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		12/17/20 18:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 18:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 18:32	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/17/20 18:32	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/17/20 18:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/17/20 18:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/17/20 18:32	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/17/20 18:32	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/17/20 18:32	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/17/20 18:32	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/17/20 18:32	103-65-1	
Styrene	ND	ug/L	0.50	1		12/17/20 18:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 18:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 18:32	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/17/20 18:32	127-18-4	
Toluene	ND	ug/L	0.50	1		12/17/20 18:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 18:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 18:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/17/20 18:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/17/20 18:32	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/17/20 18:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/17/20 18:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/17/20 18:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 18:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 18:32	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/17/20 18:32	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/17/20 18:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/17/20 18:32	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		12/17/20 18:32	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/17/20 18:32	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/17/20 18:32	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.: 92512027

QC Batch: 1594916
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92512027001

METHOD BLANK: R3605530-3 Matrix: Water
Associated Lab Samples: 92512027001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/19/20 22:30	
Aliphatic (C09-C12)	ug/L	ND	100	12/19/20 22:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/19/20 22:30	
Total VPH	ug/L	ND	100	12/19/20 22:30	
2,5-Dibromotoluene (FID)	%	85.1	70.0-130	12/19/20 22:30	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	12/19/20 22:30	

LABORATORY CONTROL SAMPLE & LCSD: R3605530-1 R3605530-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1330	1270	111	106	70.0-130	4.62	25	
Aliphatic (C09-C12)	ug/L	1400	1720	1670	123	119	70.0-130	2.95	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	228	222	114	111	70.0-130	2.67	25	
Total VPH	ug/L	2800	3280	3160	117	113	70.0-130	3.73	25	
2,5-Dibromotoluene (FID)	%				93.9	94.5	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	88.7	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
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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512027

QC Batch: 587334
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92512027001

METHOD BLANK: 3104056 Matrix: Water
Associated Lab Samples: 92512027001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/19/20 21:40	

LABORATORY CONTROL SAMPLE: 3104057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104058 3104059

Parameter	Units	92511927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	507	102	101	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
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512027

QC Batch: 587846
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92512027001

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512027001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
2,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
2-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
4-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
Benzene	ug/L	ND	0.50	12/17/20 13:12	
Bromobenzene	ug/L	ND	0.50	12/17/20 13:12	
Bromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromodichloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromoform	ug/L	ND	0.50	12/17/20 13:12	
Bromomethane	ug/L	ND	5.0	12/17/20 13:12	
Carbon tetrachloride	ug/L	ND	0.50	12/17/20 13:12	
Chlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
Chloroethane	ug/L	ND	1.0	12/17/20 13:12	
Chloroform	ug/L	ND	0.50	12/17/20 13:12	
Chloromethane	ug/L	ND	1.0	12/17/20 13:12	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Dibromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Dibromomethane	ug/L	ND	0.50	12/17/20 13:12	
Dichlorodifluoromethane	ug/L	ND	0.50	12/17/20 13:12	
Diisopropyl ether	ug/L	ND	0.50	12/17/20 13:12	

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

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.: 92512027

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512027001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/17/20 13:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/17/20 13:12	
m&p-Xylene	ug/L	ND	1.0	12/17/20 13:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/17/20 13:12	
Methylene Chloride	ug/L	ND	2.0	12/17/20 13:12	
n-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
n-Propylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Naphthalene	ug/L	ND	2.0	12/17/20 13:12	
o-Xylene	ug/L	ND	0.50	12/17/20 13:12	
sec-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Styrene	ug/L	ND	0.50	12/17/20 13:12	
tert-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Tetrachloroethene	ug/L	ND	0.50	12/17/20 13:12	
Toluene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Trichloroethene	ug/L	ND	0.50	12/17/20 13:12	
Trichlorofluoromethane	ug/L	ND	1.0	12/17/20 13:12	
Vinyl chloride	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/20 13:12	
4-Bromofluorobenzene (S)	%	103	70-130	12/17/20 13:12	
Toluene-d8 (S)	%	103	70-130	12/17/20 13:12	

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.5	123	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	53.3	107	60-140	
1,1-Dichloropropene	ug/L	50	54.4	109	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	56.0	112	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.1	126	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.7	113	60-140	
1,2-Dichlorobenzene	ug/L	50	54.5	109	60-140	
1,2-Dichloroethane	ug/L	50	50.8	102	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	60-140	

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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.: 92512027

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,3-Dichloropropane	ug/L	50	56.8	114	60-140	
1,4-Dichlorobenzene	ug/L	50	52.1	104	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	54.0	108	60-140	
4-Chlorotoluene	ug/L	50	54.5	109	60-140	
Benzene	ug/L	50	52.1	104	60-140	
Bromobenzene	ug/L	50	53.3	107	60-140	
Bromochloromethane	ug/L	50	52.0	104	60-140	
Bromodichloromethane	ug/L	50	51.6	103	60-140	
Bromoform	ug/L	50	60.2	120	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	58.8	118	60-140	
Chlorobenzene	ug/L	50	51.6	103	60-140	
Chloroethane	ug/L	50	46.8	94	60-140	
Chloroform	ug/L	50	51.8	104	60-140	
Chloromethane	ug/L	50	51.4	103	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	60-140	
Dibromochloromethane	ug/L	50	61.8	124	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.6	89	60-140	
Diisopropyl ether	ug/L	50	55.5	111	60-140	
Ethylbenzene	ug/L	50	51.2	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	52.8	106	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.9	110	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	54.2	108	60-140	
o-Xylene	ug/L	50	52.3	105	60-140	
sec-Butylbenzene	ug/L	50	53.5	107	60-140	
Styrene	ug/L	50	52.0	104	60-140	
tert-Butylbenzene	ug/L	50	46.8	94	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	51.1	102	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	49.2	98	60-140	
Vinyl chloride	ug/L	50	46.6	93	60-140	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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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.: 92512027

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 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	10000	10000	12700	12700	127	127	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	10000	10000	12600	13100	126	131	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	10000	11300	11900	113	119	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	10000	10000	11000	11600	110	116	60-140	6	
1,1-Dichloroethane	ug/L	ND	10000	10000	12100	12300	121	123	60-140	2	
1,1-Dichloroethene	ug/L	ND	10000	10000	12400	12600	124	126	60-140	2	
1,1-Dichloropropene	ug/L	ND	10000	10000	12400	12700	124	127	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	10000	10000	9940	11000	99	110	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	10000	10000	11300	11400	113	114	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	10000	10000	10000	10900	100	109	60-140	9	
1,2,4-Trimethylbenzene	ug/L	3800	10000	10000	14300	14700	105	109	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	10000	10000	12200	12600	122	126	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	10000	10000	11900	12000	119	120	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	10000	10000	11200	11400	112	114	60-140	2	
1,2-Dichloroethane	ug/L	ND	10000	10000	11300	11600	113	116	60-140	3	
1,2-Dichloropropane	ug/L	ND	10000	10000	11800	12500	118	125	60-140	5	
1,3,5-Trimethylbenzene	ug/L	946	10000	10000	11900	12300	110	113	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	10000	10000	10700	11300	107	113	60-140	6	
1,3-Dichloropropane	ug/L	ND	10000	10000	11900	12300	119	123	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	10000	10000	10800	11000	108	110	60-140	2	
2,2-Dichloropropane	ug/L	ND	10000	10000	11700	12600	117	126	60-140	7	
2-Chlorotoluene	ug/L	ND	10000	10000	11100	11000	111	110	60-140	1	
4-Chlorotoluene	ug/L	ND	10000	10000	11200	11800	112	118	60-140	5	
Benzene	ug/L	5530	10000	10000	17100	17500	116	119	60-140	2	
Bromobenzene	ug/L	ND	10000	10000	11100	11400	111	114	60-140	2	
Bromochloromethane	ug/L	ND	10000	10000	11200	11600	112	116	60-140	3	
Bromodichloromethane	ug/L	ND	10000	10000	10500	11400	105	114	60-140	8	
Bromoform	ug/L	ND	10000	10000	11200	12100	112	121	60-140	7	
Bromomethane	ug/L	ND	10000	10000	10000	11200	100	112	60-140	12	
Carbon tetrachloride	ug/L	ND	10000	10000	12800	13200	128	132	60-140	4	
Chlorobenzene	ug/L	ND	10000	10000	11000	11500	110	115	60-140	4	
Chloroethane	ug/L	ND	10000	10000	11800	11700	118	117	60-140	1	
Chloroform	ug/L	ND	10000	10000	11700	11700	117	117	60-140	0	
Chloromethane	ug/L	ND	10000	10000	10700	11100	107	111	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12400	119	124	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	10000	10000	11400	12100	114	121	60-140	6	
Dibromochloromethane	ug/L	ND	10000	10000	12100	12500	121	125	60-140	3	
Dibromomethane	ug/L	ND	10000	10000	10600	11000	106	110	60-140	4	
Dichlorodifluoromethane	ug/L	ND	10000	10000	9680	10100	97	101	60-140	4	
Diisopropyl ether	ug/L	ND	10000	10000	11800	12100	118	121	60-140	2	
Ethylbenzene	ug/L	5200	10000	10000	16500	17000	113	118	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	10000	10000	10000	11300	100	113	60-140	12	
Isopropylbenzene (Cumene)	ug/L	ND	10000	10000	11600	12000	114	118	60-140	3	
m&p-Xylene	ug/L	18100	20000	20000	40700	41900	113	119	60-140	3	
Methyl-tert-butyl ether	ug/L	323	10000	10000	11400	11800	111	115	60-140	3	
Methylene Chloride	ug/L	ND	10000	10000	11600	11900	116	119	60-140	3	

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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.: 92512027

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	10000	10000	10700	11700	107	117	60-140	9	
n-Propylbenzene	ug/L	594	10000	10000	11900	12300	113	117	60-140	3	
Naphthalene	ug/L	ND	10000	10000	10900	11900	102	112	60-140	9	
o-Xylene	ug/L	9000	10000	10000	19900	20600	109	116	60-140	4	
sec-Butylbenzene	ug/L	ND	10000	10000	11200	11900	112	119	60-140	6	
Styrene	ug/L	ND	10000	10000	11500	11000	115	110	60-140	5	
tert-Butylbenzene	ug/L	ND	10000	10000	10000	10200	100	102	60-140	2	
Tetrachloroethene	ug/L	ND	10000	10000	10700	10900	107	109	60-140	2	
Toluene	ug/L	72300	10000	10000	80400	81200	81	89	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12700	119	127	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Trichloroethene	ug/L	ND	10000	10000	11500	11200	115	112	60-140	2	
Trichlorofluoromethane	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Vinyl chloride	ug/L	ND	10000	10000	10600	11100	106	111	60-140	5	
1,2-Dichloroethane-d4 (S)	%						105	107	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						99	101	70-130		

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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.: 92512027

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.: 92512027

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512027001	**13835_AC_RD_20201215**	MADEPV	1594916	MADEP VPH	1594916
92512027001	**13835_AC_RD_20201215**	EPA 3010A	587334	EPA 6010D	587370
92512027001	**13835_AC_RD_20201215**	SM 6200B	587846		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92512027

92512027

LAB USE ONLY - Affix Workorder Number or Label Here or List Pace Workorder Number 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 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: _____

** 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	MADEP VPH	Lead	Lab Sample # / Comments
13835_AC_RD_20201215	DW	G	12-15-20	1020				8	X	X	X	92512027 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: 232518AV	
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 #: 2561318

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

Lab Sample Temperature Info:

Temp Blank Received: Y N (NA)

Therm ID#: 221064

Cooler 1 Temp Upon Receipt: 4.5 oC

Cooler 1 Therm Corr. Factor: -0.4 oC

Cooler 1 Corrected Temp: 4.1 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-15-20 1310	VS PACE HVL	12/15/20 1310
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

December 22, 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.: 92512037

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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.: 92512037

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.: 92512037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512037001	**13800_HC_.RD_20201215**	MADEP VPH	ACG	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 Incident
Pace Project No.: 92512037

Sample: 13800_HC_.RD_20201215 **Lab ID: 92512037001** Collected: 12/15/20 08:35 Received: 12/15/20 13:10 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	12/19/20 23:03	12/19/20 23:03		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/19/20 23:03	12/19/20 23:03		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/19/20 23:03	12/19/20 23:03	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/19/20 23:03	12/19/20 23:03	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.3	%	70.0-130	1	12/19/20 23:03	12/19/20 23:03	615-59-8FID	
2,5-Dibromotoluene (PID)	83.8	%	70.0-130	1	12/19/20 23:03	12/19/20 23:03	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	12/16/20 09:55	12/19/20 22:16	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/17/20 18:50	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/17/20 18:50	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/17/20 18:50	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/17/20 18:50	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/17/20 18:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/20 18:50	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:50	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:50	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/17/20 18:50	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/17/20 18:50	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/17/20 18:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/17/20 18:50	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/17/20 18:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/17/20 18:50	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 18:50	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 18:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/17/20 18:50	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/17/20 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/17/20 18:50	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/17/20 18:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 18:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/17/20 18:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/17/20 18:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/17/20 18:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 18:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 18:50	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 Incident
Pace Project No.: 92512037

Sample: 13800_HC_.RD_20201215 **Lab ID: 92512037001** Collected: 12/15/20 08:35 Received: 12/15/20 13:10 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		12/17/20 18:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 18:50	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/17/20 18:50	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/17/20 18:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/17/20 18:50	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/17/20 18:50	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/17/20 18:50	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/17/20 18:50	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/17/20 18:50	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/17/20 18:50	103-65-1	
Styrene	ND	ug/L	0.50	1		12/17/20 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 18:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 18:50	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/17/20 18:50	127-18-4	
Toluene	ND	ug/L	0.50	1		12/17/20 18:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 18:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 18:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/17/20 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/17/20 18:50	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/17/20 18:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/17/20 18:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/17/20 18:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 18:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 18:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/17/20 18:50	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/17/20 18:50	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/17/20 18:50	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/17/20 18:50	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/17/20 18:50	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/17/20 18:50	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-LI-2448 Incident
Pace Project No.: 92512037

QC Batch: 1594916
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92512037001

METHOD BLANK: R3605530-3 Matrix: Water
Associated Lab Samples: 92512037001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/19/20 22:30	
Aliphatic (C09-C12)	ug/L	ND	100	12/19/20 22:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/19/20 22:30	
Total VPH	ug/L	ND	100	12/19/20 22:30	
2,5-Dibromotoluene (FID)	%	85.1	70.0-130	12/19/20 22:30	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	12/19/20 22:30	

LABORATORY CONTROL SAMPLE & LCSD: R3605530-1 R3605530-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1330	1270	111	106	70.0-130	4.62	25	
Aliphatic (C09-C12)	ug/L	1400	1720	1670	123	119	70.0-130	2.95	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	228	222	114	111	70.0-130	2.67	25	
Total VPH	ug/L	2800	3280	3160	117	113	70.0-130	3.73	25	
2,5-Dibromotoluene (FID)	%				93.9	94.5	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	88.7	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 Incident
Pace Project No.: 92512037

QC Batch: 587334
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92512037001

METHOD BLANK: 3104056 Matrix: Water
Associated Lab Samples: 92512037001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/19/20 21:40	

LABORATORY CONTROL SAMPLE: 3104057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104058 3104059

Parameter	Units	92511927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	507	102	101	75-125	0	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512037

QC Batch: 587846
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92512037001

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512037001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
2,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
2-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
4-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
Benzene	ug/L	ND	0.50	12/17/20 13:12	
Bromobenzene	ug/L	ND	0.50	12/17/20 13:12	
Bromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromodichloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromoform	ug/L	ND	0.50	12/17/20 13:12	
Bromomethane	ug/L	ND	5.0	12/17/20 13:12	
Carbon tetrachloride	ug/L	ND	0.50	12/17/20 13:12	
Chlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
Chloroethane	ug/L	ND	1.0	12/17/20 13:12	
Chloroform	ug/L	ND	0.50	12/17/20 13:12	
Chloromethane	ug/L	ND	1.0	12/17/20 13:12	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Dibromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Dibromomethane	ug/L	ND	0.50	12/17/20 13:12	
Dichlorodifluoromethane	ug/L	ND	0.50	12/17/20 13:12	
Diisopropyl ether	ug/L	ND	0.50	12/17/20 13:12	

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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.: 92512037

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512037001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/17/20 13:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/17/20 13:12	
m&p-Xylene	ug/L	ND	1.0	12/17/20 13:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/17/20 13:12	
Methylene Chloride	ug/L	ND	2.0	12/17/20 13:12	
n-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
n-Propylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Naphthalene	ug/L	ND	2.0	12/17/20 13:12	
o-Xylene	ug/L	ND	0.50	12/17/20 13:12	
sec-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Styrene	ug/L	ND	0.50	12/17/20 13:12	
tert-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Tetrachloroethene	ug/L	ND	0.50	12/17/20 13:12	
Toluene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Trichloroethene	ug/L	ND	0.50	12/17/20 13:12	
Trichlorofluoromethane	ug/L	ND	1.0	12/17/20 13:12	
Vinyl chloride	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/20 13:12	
4-Bromofluorobenzene (S)	%	103	70-130	12/17/20 13:12	
Toluene-d8 (S)	%	103	70-130	12/17/20 13:12	

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.5	123	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	53.3	107	60-140	
1,1-Dichloropropene	ug/L	50	54.4	109	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	56.0	112	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.1	126	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.7	113	60-140	
1,2-Dichlorobenzene	ug/L	50	54.5	109	60-140	
1,2-Dichloroethane	ug/L	50	50.8	102	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	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.: 92512037

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,3-Dichloropropane	ug/L	50	56.8	114	60-140	
1,4-Dichlorobenzene	ug/L	50	52.1	104	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	54.0	108	60-140	
4-Chlorotoluene	ug/L	50	54.5	109	60-140	
Benzene	ug/L	50	52.1	104	60-140	
Bromobenzene	ug/L	50	53.3	107	60-140	
Bromochloromethane	ug/L	50	52.0	104	60-140	
Bromodichloromethane	ug/L	50	51.6	103	60-140	
Bromoform	ug/L	50	60.2	120	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	58.8	118	60-140	
Chlorobenzene	ug/L	50	51.6	103	60-140	
Chloroethane	ug/L	50	46.8	94	60-140	
Chloroform	ug/L	50	51.8	104	60-140	
Chloromethane	ug/L	50	51.4	103	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	60-140	
Dibromochloromethane	ug/L	50	61.8	124	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.6	89	60-140	
Diisopropyl ether	ug/L	50	55.5	111	60-140	
Ethylbenzene	ug/L	50	51.2	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	52.8	106	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.9	110	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	54.2	108	60-140	
o-Xylene	ug/L	50	52.3	105	60-140	
sec-Butylbenzene	ug/L	50	53.5	107	60-140	
Styrene	ug/L	50	52.0	104	60-140	
tert-Butylbenzene	ug/L	50	46.8	94	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	51.1	102	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	49.2	98	60-140	
Vinyl chloride	ug/L	50	46.6	93	60-140	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (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: 2020-LI-2448 Incident
Pace Project No.: 92512037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 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	10000	10000	12700	12700	127	127	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	10000	10000	12600	13100	126	131	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	10000	11300	11900	113	119	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	10000	10000	11000	11600	110	116	60-140	6	
1,1-Dichloroethane	ug/L	ND	10000	10000	12100	12300	121	123	60-140	2	
1,1-Dichloroethene	ug/L	ND	10000	10000	12400	12600	124	126	60-140	2	
1,1-Dichloropropene	ug/L	ND	10000	10000	12400	12700	124	127	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	10000	10000	9940	11000	99	110	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	10000	10000	11300	11400	113	114	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	10000	10000	10000	10900	100	109	60-140	9	
1,2,4-Trimethylbenzene	ug/L	3800	10000	10000	14300	14700	105	109	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	10000	10000	12200	12600	122	126	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	10000	10000	11900	12000	119	120	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	10000	10000	11200	11400	112	114	60-140	2	
1,2-Dichloroethane	ug/L	ND	10000	10000	11300	11600	113	116	60-140	3	
1,2-Dichloropropane	ug/L	ND	10000	10000	11800	12500	118	125	60-140	5	
1,3,5-Trimethylbenzene	ug/L	946	10000	10000	11900	12300	110	113	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	10000	10000	10700	11300	107	113	60-140	6	
1,3-Dichloropropane	ug/L	ND	10000	10000	11900	12300	119	123	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	10000	10000	10800	11000	108	110	60-140	2	
2,2-Dichloropropane	ug/L	ND	10000	10000	11700	12600	117	126	60-140	7	
2-Chlorotoluene	ug/L	ND	10000	10000	11100	11000	111	110	60-140	1	
4-Chlorotoluene	ug/L	ND	10000	10000	11200	11800	112	118	60-140	5	
Benzene	ug/L	5530	10000	10000	17100	17500	116	119	60-140	2	
Bromobenzene	ug/L	ND	10000	10000	11100	11400	111	114	60-140	2	
Bromochloromethane	ug/L	ND	10000	10000	11200	11600	112	116	60-140	3	
Bromodichloromethane	ug/L	ND	10000	10000	10500	11400	105	114	60-140	8	
Bromoform	ug/L	ND	10000	10000	11200	12100	112	121	60-140	7	
Bromomethane	ug/L	ND	10000	10000	10000	11200	100	112	60-140	12	
Carbon tetrachloride	ug/L	ND	10000	10000	12800	13200	128	132	60-140	4	
Chlorobenzene	ug/L	ND	10000	10000	11000	11500	110	115	60-140	4	
Chloroethane	ug/L	ND	10000	10000	11800	11700	118	117	60-140	1	
Chloroform	ug/L	ND	10000	10000	11700	11700	117	117	60-140	0	
Chloromethane	ug/L	ND	10000	10000	10700	11100	107	111	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12400	119	124	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	10000	10000	11400	12100	114	121	60-140	6	
Dibromochloromethane	ug/L	ND	10000	10000	12100	12500	121	125	60-140	3	
Dibromomethane	ug/L	ND	10000	10000	10600	11000	106	110	60-140	4	
Dichlorodifluoromethane	ug/L	ND	10000	10000	9680	10100	97	101	60-140	4	
Diisopropyl ether	ug/L	ND	10000	10000	11800	12100	118	121	60-140	2	
Ethylbenzene	ug/L	5200	10000	10000	16500	17000	113	118	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	10000	10000	10000	11300	100	113	60-140	12	
Isopropylbenzene (Cumene)	ug/L	ND	10000	10000	11600	12000	114	118	60-140	3	
m&p-Xylene	ug/L	18100	20000	20000	40700	41900	113	119	60-140	3	
Methyl-tert-butyl ether	ug/L	323	10000	10000	11400	11800	111	115	60-140	3	
Methylene Chloride	ug/L	ND	10000	10000	11600	11900	116	119	60-140	3	

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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.: 92512037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	10000	10000	10700	11700	107	117	60-140	9	
n-Propylbenzene	ug/L	594	10000	10000	11900	12300	113	117	60-140	3	
Naphthalene	ug/L	ND	10000	10000	10900	11900	102	112	60-140	9	
o-Xylene	ug/L	9000	10000	10000	19900	20600	109	116	60-140	4	
sec-Butylbenzene	ug/L	ND	10000	10000	11200	11900	112	119	60-140	6	
Styrene	ug/L	ND	10000	10000	11500	11000	115	110	60-140	5	
tert-Butylbenzene	ug/L	ND	10000	10000	10000	10200	100	102	60-140	2	
Tetrachloroethene	ug/L	ND	10000	10000	10700	10900	107	109	60-140	2	
Toluene	ug/L	72300	10000	10000	80400	81200	81	89	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12700	119	127	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Trichloroethene	ug/L	ND	10000	10000	11500	11200	115	112	60-140	2	
Trichlorofluoromethane	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Vinyl chloride	ug/L	ND	10000	10000	10600	11100	106	111	60-140	5	
1,2-Dichloroethane-d4 (S)	%						105	107	70-130		
4-Bromofluorobenzene (S)	%						101	101	70-130		
Toluene-d8 (S)	%						99	101	70-130		

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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.: 92512037

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.: 92512037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512037001	**13800_HC_.RD_20201215**	MADEPV	1594916	MADEP VPH	1594916
92512037001	**13800_HC_.RD_20201215**	EPA 3010A	587334	EPA 6010D	587370
92512037001	**13800_HC_.RD_20201215**	SM 6200B	587846		

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

WO# : 92512037

92512037

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-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 Type: (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	MADEP VPH	Lead	Lab Profile/Line:
13800.HC.DD.20201215	DW	G	12-15-20	0835				8	X	X	X	92512037 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: 233158AV	
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 #: 2561319

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

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 92706d4
Cooler 1 Temp Upon Receipt: 4.5 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 4.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-15-20 1310	VS PACE-HVL	12/15/20 1310
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

December 22, 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.: 92512042

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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.: 92512042

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.: 92512042

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512042001	**13926A_HC_RD_20201215**	MADEP VPH	ACG	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
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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

Sample: 13926A_HC_RD_20201215 **Lab ID: 92512042001** Collected: 12/15/20 08:35 Received: 12/15/20 13:10 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	12/20/20 00:09	12/20/20 00:09		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/20/20 00:09	12/20/20 00:09		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/20/20 00:09	12/20/20 00:09	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/20/20 00:09	12/20/20 00:09	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.7	%	70.0-130	1	12/20/20 00:09	12/20/20 00:09	615-59-8FID	
2,5-Dibromotoluene (PID)	90.7	%	70.0-130	1	12/20/20 00:09	12/20/20 00:09	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	12/16/20 09:55	12/19/20 22:19	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/17/20 19:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/17/20 19:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/17/20 19:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/17/20 19:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/17/20 19:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/20 19:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/17/20 19:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/17/20 19:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/17/20 19:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/17/20 19:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/17/20 19:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 19:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 19:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/17/20 19:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/17/20 19:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/17/20 19:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/17/20 19:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/17/20 19:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/17/20 19:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/17/20 19:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:07	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

Sample: 13926A_HC_RD_20201215 **Lab ID: 92512042001** Collected: 12/15/20 08:35 Received: 12/15/20 13:10 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		12/17/20 19:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 19:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 19:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/17/20 19:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/17/20 19:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/17/20 19:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/17/20 19:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/17/20 19:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/17/20 19:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/17/20 19:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/17/20 19:07	103-65-1	
Styrene	ND	ug/L	0.50	1		12/17/20 19:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 19:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 19:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/17/20 19:07	127-18-4	
Toluene	ND	ug/L	0.50	1		12/17/20 19:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 19:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 19:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/17/20 19:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/17/20 19:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/17/20 19:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/17/20 19:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/17/20 19:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 19:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 19:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/17/20 19:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/17/20 19:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/17/20 19:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/17/20 19:07	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/17/20 19:07	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/17/20 19:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

QC Batch: 1594916
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92512042001

METHOD BLANK: R3605530-3 Matrix: Water
Associated Lab Samples: 92512042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/19/20 22:30	
Aliphatic (C09-C12)	ug/L	ND	100	12/19/20 22:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/19/20 22:30	
Total VPH	ug/L	ND	100	12/19/20 22:30	
2,5-Dibromotoluene (FID)	%	85.1	70.0-130	12/19/20 22:30	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	12/19/20 22:30	

LABORATORY CONTROL SAMPLE & LCSD: R3605530-1 R3605530-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1330	1270	111	106	70.0-130	4.62	25	
Aliphatic (C09-C12)	ug/L	1400	1720	1670	123	119	70.0-130	2.95	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	228	222	114	111	70.0-130	2.67	25	
Total VPH	ug/L	2800	3280	3160	117	113	70.0-130	3.73	25	
2,5-Dibromotoluene (FID)	%				93.9	94.5	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	88.7	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

QC Batch: 587334
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92512042001

METHOD BLANK: 3104056 Matrix: Water
Associated Lab Samples: 92512042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/19/20 21:40	

LABORATORY CONTROL SAMPLE: 3104057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104058 3104059

Parameter	Units	92511927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	507	102	101	75-125	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

QC Batch: 587846
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92512042001

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
2,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
2-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
4-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
Benzene	ug/L	ND	0.50	12/17/20 13:12	
Bromobenzene	ug/L	ND	0.50	12/17/20 13:12	
Bromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromodichloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromoform	ug/L	ND	0.50	12/17/20 13:12	
Bromomethane	ug/L	ND	5.0	12/17/20 13:12	
Carbon tetrachloride	ug/L	ND	0.50	12/17/20 13:12	
Chlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
Chloroethane	ug/L	ND	1.0	12/17/20 13:12	
Chloroform	ug/L	ND	0.50	12/17/20 13:12	
Chloromethane	ug/L	ND	1.0	12/17/20 13:12	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Dibromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Dibromomethane	ug/L	ND	0.50	12/17/20 13:12	
Dichlorodifluoromethane	ug/L	ND	0.50	12/17/20 13:12	
Diisopropyl ether	ug/L	ND	0.50	12/17/20 13:12	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/17/20 13:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/17/20 13:12	
m&p-Xylene	ug/L	ND	1.0	12/17/20 13:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/17/20 13:12	
Methylene Chloride	ug/L	ND	2.0	12/17/20 13:12	
n-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
n-Propylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Naphthalene	ug/L	ND	2.0	12/17/20 13:12	
o-Xylene	ug/L	ND	0.50	12/17/20 13:12	
sec-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Styrene	ug/L	ND	0.50	12/17/20 13:12	
tert-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Tetrachloroethene	ug/L	ND	0.50	12/17/20 13:12	
Toluene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Trichloroethene	ug/L	ND	0.50	12/17/20 13:12	
Trichlorofluoromethane	ug/L	ND	1.0	12/17/20 13:12	
Vinyl chloride	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/20 13:12	
4-Bromofluorobenzene (S)	%	103	70-130	12/17/20 13:12	
Toluene-d8 (S)	%	103	70-130	12/17/20 13:12	

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.5	123	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	53.3	107	60-140	
1,1-Dichloropropene	ug/L	50	54.4	109	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	56.0	112	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.1	126	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.7	113	60-140	
1,2-Dichlorobenzene	ug/L	50	54.5	109	60-140	
1,2-Dichloroethane	ug/L	50	50.8	102	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,3-Dichloropropane	ug/L	50	56.8	114	60-140	
1,4-Dichlorobenzene	ug/L	50	52.1	104	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	54.0	108	60-140	
4-Chlorotoluene	ug/L	50	54.5	109	60-140	
Benzene	ug/L	50	52.1	104	60-140	
Bromobenzene	ug/L	50	53.3	107	60-140	
Bromochloromethane	ug/L	50	52.0	104	60-140	
Bromodichloromethane	ug/L	50	51.6	103	60-140	
Bromoform	ug/L	50	60.2	120	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	58.8	118	60-140	
Chlorobenzene	ug/L	50	51.6	103	60-140	
Chloroethane	ug/L	50	46.8	94	60-140	
Chloroform	ug/L	50	51.8	104	60-140	
Chloromethane	ug/L	50	51.4	103	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	60-140	
Dibromochloromethane	ug/L	50	61.8	124	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.6	89	60-140	
Diisopropyl ether	ug/L	50	55.5	111	60-140	
Ethylbenzene	ug/L	50	51.2	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	52.8	106	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.9	110	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	54.2	108	60-140	
o-Xylene	ug/L	50	52.3	105	60-140	
sec-Butylbenzene	ug/L	50	53.5	107	60-140	
Styrene	ug/L	50	52.0	104	60-140	
tert-Butylbenzene	ug/L	50	46.8	94	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	51.1	102	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	49.2	98	60-140	
Vinyl chloride	ug/L	50	46.6	93	60-140	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (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: 2020-LI-2448 Incident
Pace Project No.: 92512042

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 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	10000	10000	12700	12700	127	127	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	10000	10000	12600	13100	126	131	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	10000	11300	11900	113	119	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	10000	10000	11000	11600	110	116	60-140	6	
1,1-Dichloroethane	ug/L	ND	10000	10000	12100	12300	121	123	60-140	2	
1,1-Dichloroethene	ug/L	ND	10000	10000	12400	12600	124	126	60-140	2	
1,1-Dichloropropene	ug/L	ND	10000	10000	12400	12700	124	127	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	10000	10000	9940	11000	99	110	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	10000	10000	11300	11400	113	114	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	10000	10000	10000	10900	100	109	60-140	9	
1,2,4-Trimethylbenzene	ug/L	3800	10000	10000	14300	14700	105	109	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	10000	10000	12200	12600	122	126	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	10000	10000	11900	12000	119	120	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	10000	10000	11200	11400	112	114	60-140	2	
1,2-Dichloroethane	ug/L	ND	10000	10000	11300	11600	113	116	60-140	3	
1,2-Dichloropropane	ug/L	ND	10000	10000	11800	12500	118	125	60-140	5	
1,3,5-Trimethylbenzene	ug/L	946	10000	10000	11900	12300	110	113	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	10000	10000	10700	11300	107	113	60-140	6	
1,3-Dichloropropane	ug/L	ND	10000	10000	11900	12300	119	123	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	10000	10000	10800	11000	108	110	60-140	2	
2,2-Dichloropropane	ug/L	ND	10000	10000	11700	12600	117	126	60-140	7	
2-Chlorotoluene	ug/L	ND	10000	10000	11100	11000	111	110	60-140	1	
4-Chlorotoluene	ug/L	ND	10000	10000	11200	11800	112	118	60-140	5	
Benzene	ug/L	5530	10000	10000	17100	17500	116	119	60-140	2	
Bromobenzene	ug/L	ND	10000	10000	11100	11400	111	114	60-140	2	
Bromochloromethane	ug/L	ND	10000	10000	11200	11600	112	116	60-140	3	
Bromodichloromethane	ug/L	ND	10000	10000	10500	11400	105	114	60-140	8	
Bromoform	ug/L	ND	10000	10000	11200	12100	112	121	60-140	7	
Bromomethane	ug/L	ND	10000	10000	10000	11200	100	112	60-140	12	
Carbon tetrachloride	ug/L	ND	10000	10000	12800	13200	128	132	60-140	4	
Chlorobenzene	ug/L	ND	10000	10000	11000	11500	110	115	60-140	4	
Chloroethane	ug/L	ND	10000	10000	11800	11700	118	117	60-140	1	
Chloroform	ug/L	ND	10000	10000	11700	11700	117	117	60-140	0	
Chloromethane	ug/L	ND	10000	10000	10700	11100	107	111	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12400	119	124	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	10000	10000	11400	12100	114	121	60-140	6	
Dibromochloromethane	ug/L	ND	10000	10000	12100	12500	121	125	60-140	3	
Dibromomethane	ug/L	ND	10000	10000	10600	11000	106	110	60-140	4	
Dichlorodifluoromethane	ug/L	ND	10000	10000	9680	10100	97	101	60-140	4	
Diisopropyl ether	ug/L	ND	10000	10000	11800	12100	118	121	60-140	2	
Ethylbenzene	ug/L	5200	10000	10000	16500	17000	113	118	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	10000	10000	10000	11300	100	113	60-140	12	
Isopropylbenzene (Cumene)	ug/L	ND	10000	10000	11600	12000	114	118	60-140	3	
m&p-Xylene	ug/L	18100	20000	20000	40700	41900	113	119	60-140	3	
Methyl-tert-butyl ether	ug/L	323	10000	10000	11400	11800	111	115	60-140	3	
Methylene Chloride	ug/L	ND	10000	10000	11600	11900	116	119	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 Incident
Pace Project No.: 92512042

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	10000	10000	10700	11700	107	117	60-140	9	
n-Propylbenzene	ug/L	594	10000	10000	11900	12300	113	117	60-140	3	
Naphthalene	ug/L	ND	10000	10000	10900	11900	102	112	60-140	9	
o-Xylene	ug/L	9000	10000	10000	19900	20600	109	116	60-140	4	
sec-Butylbenzene	ug/L	ND	10000	10000	11200	11900	112	119	60-140	6	
Styrene	ug/L	ND	10000	10000	11500	11000	115	110	60-140	5	
tert-Butylbenzene	ug/L	ND	10000	10000	10000	10200	100	102	60-140	2	
Tetrachloroethene	ug/L	ND	10000	10000	10700	10900	107	109	60-140	2	
Toluene	ug/L	72300	10000	10000	80400	81200	81	89	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12700	119	127	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Trichloroethene	ug/L	ND	10000	10000	11500	11200	115	112	60-140	2	
Trichlorofluoromethane	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Vinyl chloride	ug/L	ND	10000	10000	10600	11100	106	111	60-140	5	
1,2-Dichloroethane-d4 (S)	%						105	107	70-130		
4-Bromofluorobenzene (S)	%						101	101	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
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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92512042

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.: 92512042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512042001	**13926A_HC_RD_20201215**	MADEPV	1594916	MADEP VPH	1594916
92512042001	**13926A_HC_RD_20201215**	EPA 3010A	587334	EPA 6010D	587370
92512042001	**13926A_HC_RD_20201215**	SM 6200B	587846		

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

WO# : 92512042

92512042

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 Trxident	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 Type. (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	MADEP VPH	Lead	Lab Profile/Line
13926A_HC_RD_20201215	DW	G	12-15-20	1210				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)
Cl Strips: _____			
Sample pH Acceptable	(Y)	N	NA
pH Strips: 232 BOPV			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

92512042

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Bubblebags

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

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

Lab Tracking #: 2560682

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: 4.5 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 4.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-15-20 1310	VS PACE HK	12/15/20 1310
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

December 22, 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.: 92512044

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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.: 92512044

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.: 92512044

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512044001	**13926B_HC_RD_20201215**	MADEP VPH	ACG	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 Incident
Pace Project No.: 92512044

Sample: 13926B_HC_RD_20201215 **Lab ID: 92512044001** Collected: 12/15/20 11:45 Received: 12/15/20 13:10 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	12/20/20 02:22	12/20/20 02:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/20/20 02:22	12/20/20 02:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/20/20 02:22	12/20/20 02:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/20/20 02:22	12/20/20 02:22	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.3	%	70.0-130	1	12/20/20 02:22	12/20/20 02:22	615-59-8FID	
2,5-Dibromotoluene (PID)	86.7	%	70.0-130	1	12/20/20 02:22	12/20/20 02:22	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	12/16/20 09:55	12/19/20 22:22	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/17/20 19:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/17/20 19:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/17/20 19:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/17/20 19:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/17/20 19:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/20 19:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/17/20 19:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/17/20 19:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/17/20 19:25	75-00-3	
Chloroform	**8.5**	ug/L	0.50	1		12/17/20 19:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/17/20 19:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 19:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 19:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/17/20 19:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/17/20 19:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/17/20 19:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/17/20 19:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/17/20 19:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/17/20 19:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/17/20 19:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:25	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-LI-2448 Incident
Pace Project No.: 92512044

Sample: 13926B_HC_RD_20201215 **Lab ID: 92512044001** Collected: 12/15/20 11:45 Received: 12/15/20 13:10 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		12/17/20 19:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 19:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/17/20 19:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/17/20 19:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/17/20 19:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/17/20 19:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/17/20 19:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/17/20 19:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/17/20 19:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/17/20 19:25	103-65-1	
Styrene	ND	ug/L	0.50	1		12/17/20 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 19:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/17/20 19:25	127-18-4	
Toluene	ND	ug/L	0.50	1		12/17/20 19:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 19:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 19:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/17/20 19:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/17/20 19:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/17/20 19:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/17/20 19:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/17/20 19:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 19:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 19:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/17/20 19:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/17/20 19:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/17/20 19:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/17/20 19:25	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/17/20 19:25	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/17/20 19:25	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-LI-2448 Incident
Pace Project No.: 92512044

QC Batch: 1594916
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92512044001

METHOD BLANK: R3605530-3 Matrix: Water
Associated Lab Samples: 92512044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/19/20 22:30	
Aliphatic (C09-C12)	ug/L	ND	100	12/19/20 22:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/19/20 22:30	
Total VPH	ug/L	ND	100	12/19/20 22:30	
2,5-Dibromotoluene (FID)	%	85.1	70.0-130	12/19/20 22:30	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	12/19/20 22:30	

LABORATORY CONTROL SAMPLE & LCSD: R3605530-1 R3605530-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1330	1270	111	106	70.0-130	4.62	25	
Aliphatic (C09-C12)	ug/L	1400	1720	1670	123	119	70.0-130	2.95	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	228	222	114	111	70.0-130	2.67	25	
Total VPH	ug/L	2800	3280	3160	117	113	70.0-130	3.73	25	
2,5-Dibromotoluene (FID)	%				93.9	94.5	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	88.7	70.0-130			

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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.: 92512044

QC Batch: 587334
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92512044001

METHOD BLANK: 3104056 Matrix: Water
Associated Lab Samples: 92512044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/19/20 21:40	

LABORATORY CONTROL SAMPLE: 3104057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104058 3104059

Parameter	Units	92511927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	507	102	101	75-125	0	

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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.: 92512044

QC Batch: 587846
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92512044001

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
2,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
2-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
4-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
Benzene	ug/L	ND	0.50	12/17/20 13:12	
Bromobenzene	ug/L	ND	0.50	12/17/20 13:12	
Bromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromodichloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromoform	ug/L	ND	0.50	12/17/20 13:12	
Bromomethane	ug/L	ND	5.0	12/17/20 13:12	
Carbon tetrachloride	ug/L	ND	0.50	12/17/20 13:12	
Chlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
Chloroethane	ug/L	ND	1.0	12/17/20 13:12	
Chloroform	ug/L	ND	0.50	12/17/20 13:12	
Chloromethane	ug/L	ND	1.0	12/17/20 13:12	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Dibromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Dibromomethane	ug/L	ND	0.50	12/17/20 13:12	
Dichlorodifluoromethane	ug/L	ND	0.50	12/17/20 13:12	
Diisopropyl ether	ug/L	ND	0.50	12/17/20 13:12	

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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.: 92512044

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512044001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/17/20 13:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/17/20 13:12	
m&p-Xylene	ug/L	ND	1.0	12/17/20 13:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/17/20 13:12	
Methylene Chloride	ug/L	ND	2.0	12/17/20 13:12	
n-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
n-Propylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Naphthalene	ug/L	ND	2.0	12/17/20 13:12	
o-Xylene	ug/L	ND	0.50	12/17/20 13:12	
sec-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Styrene	ug/L	ND	0.50	12/17/20 13:12	
tert-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Tetrachloroethene	ug/L	ND	0.50	12/17/20 13:12	
Toluene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Trichloroethene	ug/L	ND	0.50	12/17/20 13:12	
Trichlorofluoromethane	ug/L	ND	1.0	12/17/20 13:12	
Vinyl chloride	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/20 13:12	
4-Bromofluorobenzene (S)	%	103	70-130	12/17/20 13:12	
Toluene-d8 (S)	%	103	70-130	12/17/20 13:12	

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.5	123	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	53.3	107	60-140	
1,1-Dichloropropene	ug/L	50	54.4	109	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	56.0	112	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.1	126	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.7	113	60-140	
1,2-Dichlorobenzene	ug/L	50	54.5	109	60-140	
1,2-Dichloroethane	ug/L	50	50.8	102	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	60-140	

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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.: 92512044

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,3-Dichloropropane	ug/L	50	56.8	114	60-140	
1,4-Dichlorobenzene	ug/L	50	52.1	104	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	54.0	108	60-140	
4-Chlorotoluene	ug/L	50	54.5	109	60-140	
Benzene	ug/L	50	52.1	104	60-140	
Bromobenzene	ug/L	50	53.3	107	60-140	
Bromochloromethane	ug/L	50	52.0	104	60-140	
Bromodichloromethane	ug/L	50	51.6	103	60-140	
Bromoform	ug/L	50	60.2	120	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	58.8	118	60-140	
Chlorobenzene	ug/L	50	51.6	103	60-140	
Chloroethane	ug/L	50	46.8	94	60-140	
Chloroform	ug/L	50	51.8	104	60-140	
Chloromethane	ug/L	50	51.4	103	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	60-140	
Dibromochloromethane	ug/L	50	61.8	124	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.6	89	60-140	
Diisopropyl ether	ug/L	50	55.5	111	60-140	
Ethylbenzene	ug/L	50	51.2	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	52.8	106	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.9	110	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	54.2	108	60-140	
o-Xylene	ug/L	50	52.3	105	60-140	
sec-Butylbenzene	ug/L	50	53.5	107	60-140	
Styrene	ug/L	50	52.0	104	60-140	
tert-Butylbenzene	ug/L	50	46.8	94	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	51.1	102	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	49.2	98	60-140	
Vinyl chloride	ug/L	50	46.6	93	60-140	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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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.: 92512044

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 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	10000	10000	12700	12700	127	127	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	10000	10000	12600	13100	126	131	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	10000	11300	11900	113	119	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	10000	10000	11000	11600	110	116	60-140	6	
1,1-Dichloroethane	ug/L	ND	10000	10000	12100	12300	121	123	60-140	2	
1,1-Dichloroethene	ug/L	ND	10000	10000	12400	12600	124	126	60-140	2	
1,1-Dichloropropene	ug/L	ND	10000	10000	12400	12700	124	127	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	10000	10000	9940	11000	99	110	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	10000	10000	11300	11400	113	114	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	10000	10000	10000	10900	100	109	60-140	9	
1,2,4-Trimethylbenzene	ug/L	3800	10000	10000	14300	14700	105	109	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	10000	10000	12200	12600	122	126	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	10000	10000	11900	12000	119	120	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	10000	10000	11200	11400	112	114	60-140	2	
1,2-Dichloroethane	ug/L	ND	10000	10000	11300	11600	113	116	60-140	3	
1,2-Dichloropropane	ug/L	ND	10000	10000	11800	12500	118	125	60-140	5	
1,3,5-Trimethylbenzene	ug/L	946	10000	10000	11900	12300	110	113	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	10000	10000	10700	11300	107	113	60-140	6	
1,3-Dichloropropane	ug/L	ND	10000	10000	11900	12300	119	123	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	10000	10000	10800	11000	108	110	60-140	2	
2,2-Dichloropropane	ug/L	ND	10000	10000	11700	12600	117	126	60-140	7	
2-Chlorotoluene	ug/L	ND	10000	10000	11100	11000	111	110	60-140	1	
4-Chlorotoluene	ug/L	ND	10000	10000	11200	11800	112	118	60-140	5	
Benzene	ug/L	5530	10000	10000	17100	17500	116	119	60-140	2	
Bromobenzene	ug/L	ND	10000	10000	11100	11400	111	114	60-140	2	
Bromochloromethane	ug/L	ND	10000	10000	11200	11600	112	116	60-140	3	
Bromodichloromethane	ug/L	ND	10000	10000	10500	11400	105	114	60-140	8	
Bromoform	ug/L	ND	10000	10000	11200	12100	112	121	60-140	7	
Bromomethane	ug/L	ND	10000	10000	10000	11200	100	112	60-140	12	
Carbon tetrachloride	ug/L	ND	10000	10000	12800	13200	128	132	60-140	4	
Chlorobenzene	ug/L	ND	10000	10000	11000	11500	110	115	60-140	4	
Chloroethane	ug/L	ND	10000	10000	11800	11700	118	117	60-140	1	
Chloroform	ug/L	ND	10000	10000	11700	11700	117	117	60-140	0	
Chloromethane	ug/L	ND	10000	10000	10700	11100	107	111	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12400	119	124	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	10000	10000	11400	12100	114	121	60-140	6	
Dibromochloromethane	ug/L	ND	10000	10000	12100	12500	121	125	60-140	3	
Dibromomethane	ug/L	ND	10000	10000	10600	11000	106	110	60-140	4	
Dichlorodifluoromethane	ug/L	ND	10000	10000	9680	10100	97	101	60-140	4	
Diisopropyl ether	ug/L	ND	10000	10000	11800	12100	118	121	60-140	2	
Ethylbenzene	ug/L	5200	10000	10000	16500	17000	113	118	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	10000	10000	10000	11300	100	113	60-140	12	
Isopropylbenzene (Cumene)	ug/L	ND	10000	10000	11600	12000	114	118	60-140	3	
m&p-Xylene	ug/L	18100	20000	20000	40700	41900	113	119	60-140	3	
Methyl-tert-butyl ether	ug/L	323	10000	10000	11400	11800	111	115	60-140	3	
Methylene Chloride	ug/L	ND	10000	10000	11600	11900	116	119	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 Incident
Pace Project No.: 92512044

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	10000	10000	10700	11700	107	117	60-140	9	
n-Propylbenzene	ug/L	594	10000	10000	11900	12300	113	117	60-140	3	
Naphthalene	ug/L	ND	10000	10000	10900	11900	102	112	60-140	9	
o-Xylene	ug/L	9000	10000	10000	19900	20600	109	116	60-140	4	
sec-Butylbenzene	ug/L	ND	10000	10000	11200	11900	112	119	60-140	6	
Styrene	ug/L	ND	10000	10000	11500	11000	115	110	60-140	5	
tert-Butylbenzene	ug/L	ND	10000	10000	10000	10200	100	102	60-140	2	
Tetrachloroethene	ug/L	ND	10000	10000	10700	10900	107	109	60-140	2	
Toluene	ug/L	72300	10000	10000	80400	81200	81	89	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12700	119	127	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Trichloroethene	ug/L	ND	10000	10000	11500	11200	115	112	60-140	2	
Trichlorofluoromethane	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Vinyl chloride	ug/L	ND	10000	10000	10600	11100	106	111	60-140	5	
1,2-Dichloroethane-d4 (S)	%						105	107	70-130		
4-Bromofluorobenzene (S)	%						101	101	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

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(704)875-9092

QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92512044

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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92512044

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512044001	**13926B_HC_RD_20201215**	MADEPV	1594916	MADEP VPH	1594916
92512044001	**13926B_HC_RD_20201215**	EPA 3010A	587334	EPA 6010D	587370
92512044001	**13926B_HC_RD_20201215**	SM 6200B	587846		

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

WO#: 92512044

92512044

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13926B Huntersville Concord Rd
Customer Project Name/Number: 2020-21-2448 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	MADEP VPH	Lead	Lab Profile/Line:
13926B-HC-BD-20201215	DW	G	12-15-20	1145				8	X	X	X	92512044 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: 232588AV	
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 #: 2560680

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: 4.5 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 4.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-15-20 1310	VS PACE HV	12/15/20 1310
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

December 22, 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.: 92512045

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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.: 92512045

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.: 92512045

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512045001	**14401_HC_RD_20201215**	MADEP VPH	ACG	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 Incident
Pace Project No.: 92512045

Sample: 14401_HC_RD_20201215 **Lab ID: 92512045001** Collected: 12/15/20 11:05 Received: 12/15/20 13:10 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	12/20/20 01:49	12/20/20 01:49		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/20/20 01:49	12/20/20 01:49		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/20/20 01:49	12/20/20 01:49	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/20/20 01:49	12/20/20 01:49	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.5	%	70.0-130	1	12/20/20 01:49	12/20/20 01:49	615-59-8FID	
2,5-Dibromotoluene (PID)	88.9	%	70.0-130	1	12/20/20 01:49	12/20/20 01:49	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	12/16/20 09:55	12/19/20 22:26	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/17/20 19:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/17/20 19:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/17/20 19:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/17/20 19:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/17/20 19:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/20 19:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/17/20 19:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/17/20 19:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/17/20 19:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/17/20 19:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/17/20 19:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/17/20 19:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 19:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/17/20 19:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/17/20 19:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/17/20 19:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/17/20 19:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/17/20 19:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/17/20 19:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/17/20 19:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/17/20 19:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/17/20 19:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/17/20 19:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/17/20 19:43	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-LI-2448 Incident
Pace Project No.: 92512045

Sample: 14401_HC_RD_20201215 **Lab ID: 92512045001** Collected: 12/15/20 11:05 Received: 12/15/20 13:10 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		12/17/20 19:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 19:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/17/20 19:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/17/20 19:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/17/20 19:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/17/20 19:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/17/20 19:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/17/20 19:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/17/20 19:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/17/20 19:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/17/20 19:43	103-65-1	
Styrene	ND	ug/L	0.50	1		12/17/20 19:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 19:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/17/20 19:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/17/20 19:43	127-18-4	
Toluene	ND	ug/L	0.50	1		12/17/20 19:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 19:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/17/20 19:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/17/20 19:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/17/20 19:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/17/20 19:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/17/20 19:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/17/20 19:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 19:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/17/20 19:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/17/20 19:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/17/20 19:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/17/20 19:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/17/20 19:43	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/17/20 19:43	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/17/20 19:43	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-LI-2448 Incident
Pace Project No.: 92512045

QC Batch: 1594916
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92512045001

METHOD BLANK: R3605530-3 Matrix: Water
Associated Lab Samples: 92512045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/19/20 22:30	
Aliphatic (C09-C12)	ug/L	ND	100	12/19/20 22:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/19/20 22:30	
Total VPH	ug/L	ND	100	12/19/20 22:30	
2,5-Dibromotoluene (FID)	%	85.1	70.0-130	12/19/20 22:30	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	12/19/20 22:30	

LABORATORY CONTROL SAMPLE & LCSD: R3605530-1 R3605530-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1330	1270	111	106	70.0-130	4.62	25	
Aliphatic (C09-C12)	ug/L	1400	1720	1670	123	119	70.0-130	2.95	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	228	222	114	111	70.0-130	2.67	25	
Total VPH	ug/L	2800	3280	3160	117	113	70.0-130	3.73	25	
2,5-Dibromotoluene (FID)	%				93.9	94.5	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	88.7	70.0-130			

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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.: 92512045

QC Batch: 587334
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92512045001

METHOD BLANK: 3104056 Matrix: Water
Associated Lab Samples: 92512045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/19/20 21:40	

LABORATORY CONTROL SAMPLE: 3104057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104058 3104059

Parameter	Units	92511927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	507	102	101	75-125	0	

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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.: 92512045

QC Batch: 587846
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92512045001

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
1,1-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/17/20 13:12	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloroethane	ug/L	ND	0.50	12/17/20 13:12	
1,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
1,3-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
2,2-Dichloropropane	ug/L	ND	0.50	12/17/20 13:12	
2-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
4-Chlorotoluene	ug/L	ND	0.50	12/17/20 13:12	
Benzene	ug/L	ND	0.50	12/17/20 13:12	
Bromobenzene	ug/L	ND	0.50	12/17/20 13:12	
Bromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromodichloromethane	ug/L	ND	0.50	12/17/20 13:12	
Bromoform	ug/L	ND	0.50	12/17/20 13:12	
Bromomethane	ug/L	ND	5.0	12/17/20 13:12	
Carbon tetrachloride	ug/L	ND	0.50	12/17/20 13:12	
Chlorobenzene	ug/L	ND	0.50	12/17/20 13:12	
Chloroethane	ug/L	ND	1.0	12/17/20 13:12	
Chloroform	ug/L	ND	0.50	12/17/20 13:12	
Chloromethane	ug/L	ND	1.0	12/17/20 13:12	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Dibromochloromethane	ug/L	ND	0.50	12/17/20 13:12	
Dibromomethane	ug/L	ND	0.50	12/17/20 13:12	
Dichlorodifluoromethane	ug/L	ND	0.50	12/17/20 13:12	
Diisopropyl ether	ug/L	ND	0.50	12/17/20 13:12	

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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.: 92512045

METHOD BLANK: 3106392 Matrix: Water
Associated Lab Samples: 92512045001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/17/20 13:12	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/17/20 13:12	
m&p-Xylene	ug/L	ND	1.0	12/17/20 13:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/17/20 13:12	
Methylene Chloride	ug/L	ND	2.0	12/17/20 13:12	
n-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
n-Propylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Naphthalene	ug/L	ND	2.0	12/17/20 13:12	
o-Xylene	ug/L	ND	0.50	12/17/20 13:12	
sec-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Styrene	ug/L	ND	0.50	12/17/20 13:12	
tert-Butylbenzene	ug/L	ND	0.50	12/17/20 13:12	
Tetrachloroethene	ug/L	ND	0.50	12/17/20 13:12	
Toluene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/17/20 13:12	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/17/20 13:12	
Trichloroethene	ug/L	ND	0.50	12/17/20 13:12	
Trichlorofluoromethane	ug/L	ND	1.0	12/17/20 13:12	
Vinyl chloride	ug/L	ND	1.0	12/17/20 13:12	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/20 13:12	
4-Bromofluorobenzene (S)	%	103	70-130	12/17/20 13:12	
Toluene-d8 (S)	%	103	70-130	12/17/20 13:12	

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	61.5	123	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.1	106	60-140	
1,1,2-Trichloroethane	ug/L	50	53.2	106	60-140	
1,1-Dichloroethane	ug/L	50	52.8	106	60-140	
1,1-Dichloroethene	ug/L	50	53.3	107	60-140	
1,1-Dichloropropene	ug/L	50	54.4	109	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.7	105	60-140	
1,2,3-Trichloropropane	ug/L	50	56.0	112	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.2	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.4	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	63.1	126	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.7	113	60-140	
1,2-Dichlorobenzene	ug/L	50	54.5	109	60-140	
1,2-Dichloroethane	ug/L	50	50.8	102	60-140	
1,2-Dichloropropane	ug/L	50	53.7	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.8	106	60-140	

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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.: 92512045

LABORATORY CONTROL SAMPLE: 3106393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,3-Dichloropropane	ug/L	50	56.8	114	60-140	
1,4-Dichlorobenzene	ug/L	50	52.1	104	60-140	
2,2-Dichloropropane	ug/L	50	60.8	122	60-140	
2-Chlorotoluene	ug/L	50	54.0	108	60-140	
4-Chlorotoluene	ug/L	50	54.5	109	60-140	
Benzene	ug/L	50	52.1	104	60-140	
Bromobenzene	ug/L	50	53.3	107	60-140	
Bromochloromethane	ug/L	50	52.0	104	60-140	
Bromodichloromethane	ug/L	50	51.6	103	60-140	
Bromoform	ug/L	50	60.2	120	60-140	
Bromomethane	ug/L	50	46.0	92	60-140	
Carbon tetrachloride	ug/L	50	58.8	118	60-140	
Chlorobenzene	ug/L	50	51.6	103	60-140	
Chloroethane	ug/L	50	46.8	94	60-140	
Chloroform	ug/L	50	51.8	104	60-140	
Chloromethane	ug/L	50	51.4	103	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	60-140	
Dibromochloromethane	ug/L	50	61.8	124	60-140	
Dibromomethane	ug/L	50	51.6	103	60-140	
Dichlorodifluoromethane	ug/L	50	44.6	89	60-140	
Diisopropyl ether	ug/L	50	55.5	111	60-140	
Ethylbenzene	ug/L	50	51.2	102	60-140	
Hexachloro-1,3-butadiene	ug/L	50	56.6	113	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	52.8	106	60-140	
Methylene Chloride	ug/L	50	50.9	102	60-140	
n-Butylbenzene	ug/L	50	54.9	110	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	54.2	108	60-140	
o-Xylene	ug/L	50	52.3	105	60-140	
sec-Butylbenzene	ug/L	50	53.5	107	60-140	
Styrene	ug/L	50	52.0	104	60-140	
tert-Butylbenzene	ug/L	50	46.8	94	60-140	
Tetrachloroethene	ug/L	50	49.2	98	60-140	
Toluene	ug/L	50	51.1	102	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.8	108	60-140	
trans-1,3-Dichloropropene	ug/L	50	59.5	119	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	49.2	98	60-140	
Vinyl chloride	ug/L	50	46.6	93	60-140	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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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.: 92512045

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 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	10000	10000	12700	12700	127	127	60-140	0	
1,1,1-Trichloroethane	ug/L	ND	10000	10000	12600	13100	126	131	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	10000	11300	11900	113	119	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	10000	10000	11000	11600	110	116	60-140	6	
1,1-Dichloroethane	ug/L	ND	10000	10000	12100	12300	121	123	60-140	2	
1,1-Dichloroethene	ug/L	ND	10000	10000	12400	12600	124	126	60-140	2	
1,1-Dichloropropene	ug/L	ND	10000	10000	12400	12700	124	127	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	10000	10000	9940	11000	99	110	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	10000	10000	11300	11400	113	114	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	10000	10000	10000	10900	100	109	60-140	9	
1,2,4-Trimethylbenzene	ug/L	3800	10000	10000	14300	14700	105	109	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	10000	10000	12200	12600	122	126	60-140	3	
1,2-Dibromoethane (EDB)	ug/L	ND	10000	10000	11900	12000	119	120	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	10000	10000	11200	11400	112	114	60-140	2	
1,2-Dichloroethane	ug/L	ND	10000	10000	11300	11600	113	116	60-140	3	
1,2-Dichloropropane	ug/L	ND	10000	10000	11800	12500	118	125	60-140	5	
1,3,5-Trimethylbenzene	ug/L	946	10000	10000	11900	12300	110	113	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	10000	10000	10700	11300	107	113	60-140	6	
1,3-Dichloropropane	ug/L	ND	10000	10000	11900	12300	119	123	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	10000	10000	10800	11000	108	110	60-140	2	
2,2-Dichloropropane	ug/L	ND	10000	10000	11700	12600	117	126	60-140	7	
2-Chlorotoluene	ug/L	ND	10000	10000	11100	11000	111	110	60-140	1	
4-Chlorotoluene	ug/L	ND	10000	10000	11200	11800	112	118	60-140	5	
Benzene	ug/L	5530	10000	10000	17100	17500	116	119	60-140	2	
Bromobenzene	ug/L	ND	10000	10000	11100	11400	111	114	60-140	2	
Bromochloromethane	ug/L	ND	10000	10000	11200	11600	112	116	60-140	3	
Bromodichloromethane	ug/L	ND	10000	10000	10500	11400	105	114	60-140	8	
Bromoform	ug/L	ND	10000	10000	11200	12100	112	121	60-140	7	
Bromomethane	ug/L	ND	10000	10000	10000	11200	100	112	60-140	12	
Carbon tetrachloride	ug/L	ND	10000	10000	12800	13200	128	132	60-140	4	
Chlorobenzene	ug/L	ND	10000	10000	11000	11500	110	115	60-140	4	
Chloroethane	ug/L	ND	10000	10000	11800	11700	118	117	60-140	1	
Chloroform	ug/L	ND	10000	10000	11700	11700	117	117	60-140	0	
Chloromethane	ug/L	ND	10000	10000	10700	11100	107	111	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12400	119	124	60-140	4	
cis-1,3-Dichloropropene	ug/L	ND	10000	10000	11400	12100	114	121	60-140	6	
Dibromochloromethane	ug/L	ND	10000	10000	12100	12500	121	125	60-140	3	
Dibromomethane	ug/L	ND	10000	10000	10600	11000	106	110	60-140	4	
Dichlorodifluoromethane	ug/L	ND	10000	10000	9680	10100	97	101	60-140	4	
Diisopropyl ether	ug/L	ND	10000	10000	11800	12100	118	121	60-140	2	
Ethylbenzene	ug/L	5200	10000	10000	16500	17000	113	118	60-140	3	
Hexachloro-1,3-butadiene	ug/L	ND	10000	10000	10000	11300	100	113	60-140	12	
Isopropylbenzene (Cumene)	ug/L	ND	10000	10000	11600	12000	114	118	60-140	3	
m&p-Xylene	ug/L	18100	20000	20000	40700	41900	113	119	60-140	3	
Methyl-tert-butyl ether	ug/L	323	10000	10000	11400	11800	111	115	60-140	3	
Methylene Chloride	ug/L	ND	10000	10000	11600	11900	116	119	60-140	3	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512045

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106394 3106395

Parameter	Units	92509856001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	10000	10000	10700	11700	107	117	60-140	9	
n-Propylbenzene	ug/L	594	10000	10000	11900	12300	113	117	60-140	3	
Naphthalene	ug/L	ND	10000	10000	10900	11900	102	112	60-140	9	
o-Xylene	ug/L	9000	10000	10000	19900	20600	109	116	60-140	4	
sec-Butylbenzene	ug/L	ND	10000	10000	11200	11900	112	119	60-140	6	
Styrene	ug/L	ND	10000	10000	11500	11000	115	110	60-140	5	
tert-Butylbenzene	ug/L	ND	10000	10000	10000	10200	100	102	60-140	2	
Tetrachloroethene	ug/L	ND	10000	10000	10700	10900	107	109	60-140	2	
Toluene	ug/L	72300	10000	10000	80400	81200	81	89	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	10000	10000	11900	12700	119	127	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Trichloroethene	ug/L	ND	10000	10000	11500	11200	115	112	60-140	2	
Trichlorofluoromethane	ug/L	ND	10000	10000	11300	12000	113	120	60-140	6	
Vinyl chloride	ug/L	ND	10000	10000	10600	11100	106	111	60-140	5	
1,2-Dichloroethane-d4 (S)	%						105	107	70-130		
4-Bromofluorobenzene (S)	%						101	101	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 Incident
Pace Project No.: 92512045

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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92512045

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512045001	**14401_HC_RD_20201215**	MADEPV	1594916	MADEP VPH	1594916
92512045001	**14401_HC_RD_20201215**	EPA 3010A	587334	EPA 6010D	587370
92512045001	**14401_HC_RD_20201215**	SM 6200B	587846		

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

WO# : 92512045

92512045

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: 2020-11-2448 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, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____ ...ic acetate, ...sulfate,

* 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
14401-NC-RD-20201215	DW	G	12/15/20	1105				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: 232158HV	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

92512045
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 #: 2560683

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: 4.5 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 4.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12.15.20 1310	VS PACE HVL	12/15/20 BIO
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

December 22, 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.: 92512046

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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.: 92512046

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.: 92512046

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92512046001	**DUP-1**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92512046002	**FB-1**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92512046003	**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
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92512046

Sample: DUP-1 **Lab ID: 92512046001** Collected: 12/15/20 00:00 Received: 12/15/20 13:10 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	12/20/20 00:42	12/20/20 00:42		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/20/20 00:42	12/20/20 00:42		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/20/20 00:42	12/20/20 00:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/20/20 00:42	12/20/20 00:42	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.3	%	70.0-130	1	12/20/20 00:42	12/20/20 00:42	615-59-8FID	
2,5-Dibromotoluene (PID)	89.8	%	70.0-130	1	12/20/20 00:42	12/20/20 00:42	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	12/16/20 09:55	12/19/20 22:29	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/18/20 01:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/18/20 01:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/18/20 01:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/18/20 01:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/18/20 01:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/20 01:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/18/20 01:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/18/20 01:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/18/20 01:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/18/20 01:03	56-23-5	M1
Chlorobenzene	ND	ug/L	0.50	1		12/18/20 01:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/18/20 01:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/18/20 01:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/18/20 01:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/18/20 01:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/18/20 01:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/18/20 01:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/18/20 01:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/18/20 01:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/18/20 01:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 01:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 01:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 01:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/18/20 01:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/18/20 01:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/18/20 01:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/18/20 01:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/18/20 01:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/18/20 01:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/18/20 01:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/18/20 01:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/18/20 01:03	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-LI-2448 Incident
Pace Project No.: 92512046

Sample: DUP-1 **Lab ID: 92512046001** Collected: 12/15/20 00:00 Received: 12/15/20 13:10 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		12/18/20 01:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/18/20 01:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/18/20 01:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/18/20 01:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/18/20 01:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/18/20 01:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/18/20 01:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/18/20 01:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/18/20 01:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/18/20 01:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/18/20 01:03	103-65-1	
Styrene	ND	ug/L	0.50	1		12/18/20 01:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/18/20 01:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/18/20 01:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/18/20 01:03	127-18-4	
Toluene	ND	ug/L	0.50	1		12/18/20 01:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/18/20 01:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/18/20 01:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/18/20 01:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/18/20 01:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/18/20 01:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/20 01:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/18/20 01:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/18/20 01:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/18/20 01:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/18/20 01:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/18/20 01:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/18/20 01:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		12/18/20 01:03	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/18/20 01:03	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/18/20 01:03	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: 2020-LI-2448 Incident
Pace Project No.: 92512046

Sample: FB-1 **Lab ID: 92512046002** Collected: 12/15/20 00:00 Received: 12/15/20 13:10 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	12/20/20 01:15	12/20/20 01:15		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/20/20 01:15	12/20/20 01:15		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/20/20 01:15	12/20/20 01:15	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/20/20 01:15	12/20/20 01:15	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.3	%	70.0-130	1	12/20/20 01:15	12/20/20 01:15	615-59-8FID	
2,5-Dibromotoluene (PID)	89.8	%	70.0-130	1	12/20/20 01:15	12/20/20 01:15	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	12/16/20 09:55	12/19/20 22:32	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/18/20 00:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/18/20 00:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/18/20 00:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/18/20 00:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/18/20 00:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/20 00:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/18/20 00:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/18/20 00:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/18/20 00:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/18/20 00:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/18/20 00:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/18/20 00:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/18/20 00:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/18/20 00:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/18/20 00:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/18/20 00:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/18/20 00:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/18/20 00:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/18/20 00:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/18/20 00:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 00:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 00:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 00:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/18/20 00:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/18/20 00:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/18/20 00:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/18/20 00:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/18/20 00:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/18/20 00:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/18/20 00:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/18/20 00:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/18/20 00:27	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-LI-2448 Incident
Pace Project No.: 92512046

Sample: FB-1 **Lab ID: 92512046002** Collected: 12/15/20 00:00 Received: 12/15/20 13:10 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		12/18/20 00:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/18/20 00:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/18/20 00:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/18/20 00:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/18/20 00:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/18/20 00:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/18/20 00:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/18/20 00:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/18/20 00:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/18/20 00:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/18/20 00:27	103-65-1	
Styrene	ND	ug/L	0.50	1		12/18/20 00:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/18/20 00:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/18/20 00:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/18/20 00:27	127-18-4	
Toluene	ND	ug/L	0.50	1		12/18/20 00:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/18/20 00:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/18/20 00:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/18/20 00:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/18/20 00:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/18/20 00:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/20 00:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/18/20 00:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/18/20 00:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/18/20 00:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/18/20 00:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/18/20 00:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/18/20 00:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		12/18/20 00:27	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/18/20 00:27	460-00-4	
Toluene-d8 (S)	104	%	70-130	1		12/18/20 00:27	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: 2020-LI-2448 Incident
Pace Project No.: 92512046

Sample: Trip Blank **Lab ID: 92512046003** Collected: 12/15/20 00:00 Received: 12/15/20 13:10 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		12/18/20 00:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/18/20 00:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/18/20 00:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/18/20 00:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/18/20 00:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/20 00:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/18/20 00:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/18/20 00:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/18/20 00:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/18/20 00:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/18/20 00:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/18/20 00:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/18/20 00:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/18/20 00:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/18/20 00:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/18/20 00:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/18/20 00:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/18/20 00:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/18/20 00:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/18/20 00:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 00:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 00:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/18/20 00:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/18/20 00:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/18/20 00:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/18/20 00:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/18/20 00:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/18/20 00:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/18/20 00:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/18/20 00:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/18/20 00:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/18/20 00:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/18/20 00:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/18/20 00:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/18/20 00:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/18/20 00:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/18/20 00:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/18/20 00:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/18/20 00:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/18/20 00:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/18/20 00:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/18/20 00:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/18/20 00:45	103-65-1	
Styrene	ND	ug/L	0.50	1		12/18/20 00:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/18/20 00:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/18/20 00:45	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 Incident
Pace Project No.: 92512046

Sample: Trip Blank **Lab ID: 92512046003** Collected: 12/15/20 00:00 Received: 12/15/20 13:10 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		12/18/20 00:45	127-18-4	
Toluene	ND	ug/L	0.50	1		12/18/20 00:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/18/20 00:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/18/20 00:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/18/20 00:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/18/20 00:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/18/20 00:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/18/20 00:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/18/20 00:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/18/20 00:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/18/20 00:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/18/20 00:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/18/20 00:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/18/20 00:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/18/20 00:45	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/18/20 00:45	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		12/18/20 00:45	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-LI-2448 Incident
Pace Project No.: 92512046

QC Batch: 1594916
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92512046001, 92512046002

METHOD BLANK: R3605530-3 Matrix: Water
Associated Lab Samples: 92512046001, 92512046002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/19/20 22:30	
Aliphatic (C09-C12)	ug/L	ND	100	12/19/20 22:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/19/20 22:30	
Total VPH	ug/L	ND	100	12/19/20 22:30	
2,5-Dibromotoluene (FID)	%	85.1	70.0-130	12/19/20 22:30	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	12/19/20 22:30	

LABORATORY CONTROL SAMPLE & LCSD: R3605530-1 R3605530-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1330	1270	111	106	70.0-130	4.62	25	
Aliphatic (C09-C12)	ug/L	1400	1720	1670	123	119	70.0-130	2.95	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	228	222	114	111	70.0-130	2.67	25	
Total VPH	ug/L	2800	3280	3160	117	113	70.0-130	3.73	25	
2,5-Dibromotoluene (FID)	%				93.9	94.5	70.0-130			
2,5-Dibromotoluene (PID)	%				88.3	88.7	70.0-130			

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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.: 92512046

QC Batch: 587334
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92512046001, 92512046002

METHOD BLANK: 3104056 Matrix: Water
Associated Lab Samples: 92512046001, 92512046002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/19/20 21:40	

LABORATORY CONTROL SAMPLE: 3104057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	507	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3104058 3104059

Parameter	Units	92511927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	507	102	101	75-125	0	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92512046

QC Batch: 587941 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92512046001, 92512046002, 92512046003

METHOD BLANK: 3106920 Matrix: Water
Associated Lab Samples: 92512046001, 92512046002, 92512046003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/18/20 00:10	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/18/20 00:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/18/20 00:10	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/18/20 00:10	
1,1-Dichloroethane	ug/L	ND	0.50	12/18/20 00:10	
1,1-Dichloroethene	ug/L	ND	0.50	12/18/20 00:10	
1,1-Dichloropropene	ug/L	ND	0.50	12/18/20 00:10	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/18/20 00:10	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/18/20 00:10	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/18/20 00:10	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/18/20 00:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/18/20 00:10	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/18/20 00:10	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/18/20 00:10	
1,2-Dichloroethane	ug/L	ND	0.50	12/18/20 00:10	
1,2-Dichloropropane	ug/L	ND	0.50	12/18/20 00:10	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/18/20 00:10	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/18/20 00:10	
1,3-Dichloropropane	ug/L	ND	0.50	12/18/20 00:10	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/18/20 00:10	
2,2-Dichloropropane	ug/L	ND	0.50	12/18/20 00:10	
2-Chlorotoluene	ug/L	ND	0.50	12/18/20 00:10	
4-Chlorotoluene	ug/L	ND	0.50	12/18/20 00:10	
Benzene	ug/L	ND	0.50	12/18/20 00:10	
Bromobenzene	ug/L	ND	0.50	12/18/20 00:10	
Bromochloromethane	ug/L	ND	0.50	12/18/20 00:10	
Bromodichloromethane	ug/L	ND	0.50	12/18/20 00:10	
Bromoform	ug/L	ND	0.50	12/18/20 00:10	
Bromomethane	ug/L	ND	5.0	12/18/20 00:10	
Carbon tetrachloride	ug/L	ND	0.50	12/18/20 00:10	
Chlorobenzene	ug/L	ND	0.50	12/18/20 00:10	
Chloroethane	ug/L	ND	1.0	12/18/20 00:10	
Chloroform	ug/L	ND	0.50	12/18/20 00:10	
Chloromethane	ug/L	ND	1.0	12/18/20 00:10	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/18/20 00:10	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/18/20 00:10	
Dibromochloromethane	ug/L	ND	0.50	12/18/20 00:10	
Dibromomethane	ug/L	ND	0.50	12/18/20 00:10	
Dichlorodifluoromethane	ug/L	ND	0.50	12/18/20 00:10	
Diisopropyl ether	ug/L	ND	0.50	12/18/20 00:10	

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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.: 92512046

METHOD BLANK: 3106920 Matrix: Water
Associated Lab Samples: 92512046001, 92512046002, 92512046003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/18/20 00:10	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/18/20 00:10	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/18/20 00:10	
m&p-Xylene	ug/L	ND	1.0	12/18/20 00:10	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/18/20 00:10	
Methylene Chloride	ug/L	ND	2.0	12/18/20 00:10	
n-Butylbenzene	ug/L	ND	0.50	12/18/20 00:10	
n-Propylbenzene	ug/L	ND	0.50	12/18/20 00:10	
Naphthalene	ug/L	ND	2.0	12/18/20 00:10	
o-Xylene	ug/L	ND	0.50	12/18/20 00:10	
sec-Butylbenzene	ug/L	ND	0.50	12/18/20 00:10	
Styrene	ug/L	ND	0.50	12/18/20 00:10	
tert-Butylbenzene	ug/L	ND	0.50	12/18/20 00:10	
Tetrachloroethene	ug/L	ND	0.50	12/18/20 00:10	
Toluene	ug/L	ND	0.50	12/18/20 00:10	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/18/20 00:10	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/18/20 00:10	
Trichloroethene	ug/L	ND	0.50	12/18/20 00:10	
Trichlorofluoromethane	ug/L	ND	1.0	12/18/20 00:10	
Vinyl chloride	ug/L	ND	1.0	12/18/20 00:10	
1,2-Dichloroethane-d4 (S)	%	110	70-130	12/18/20 00:10	
4-Bromofluorobenzene (S)	%	103	70-130	12/18/20 00:10	
Toluene-d8 (S)	%	103	70-130	12/18/20 00:10	

LABORATORY CONTROL SAMPLE: 3106921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.1	116	60-140	
1,1,1-Trichloroethane	ug/L	50	56.3	113	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	60-140	
1,1,2-Trichloroethane	ug/L	50	52.1	104	60-140	
1,1-Dichloroethane	ug/L	50	53.1	106	60-140	
1,1-Dichloroethene	ug/L	50	52.8	106	60-140	
1,1-Dichloropropene	ug/L	50	55.1	110	60-140	
1,2,3-Trichlorobenzene	ug/L	50	48.9	98	60-140	
1,2,3-Trichloropropane	ug/L	50	52.1	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	60-140	
1,2,4-Trimethylbenzene	ug/L	50	47.2	94	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.6	117	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	55.3	111	60-140	
1,2-Dichlorobenzene	ug/L	50	50.8	102	60-140	
1,2-Dichloroethane	ug/L	50	51.4	103	60-140	
1,2-Dichloropropane	ug/L	50	53.6	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.4	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-LI-2448 Incident
Pace Project No.: 92512046

LABORATORY CONTROL SAMPLE: 3106921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.6	97	60-140	
1,3-Dichloropropane	ug/L	50	54.3	109	60-140	
1,4-Dichlorobenzene	ug/L	50	47.3	95	60-140	
2,2-Dichloropropane	ug/L	50	58.1	116	60-140	
2-Chlorotoluene	ug/L	50	50.5	101	60-140	
4-Chlorotoluene	ug/L	50	49.2	98	60-140	
Benzene	ug/L	50	49.5	99	60-140	
Bromobenzene	ug/L	50	49.1	98	60-140	
Bromochloromethane	ug/L	50	52.3	105	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	56.9	114	60-140	
Bromomethane	ug/L	50	51.3	103	60-140	
Carbon tetrachloride	ug/L	50	56.2	112	60-140	
Chlorobenzene	ug/L	50	49.2	98	60-140	
Chloroethane	ug/L	50	46.0	92	60-140	
Chloroform	ug/L	50	52.1	104	60-140	
Chloromethane	ug/L	50	48.5	97	60-140	
cis-1,2-Dichloroethene	ug/L	50	52.3	105	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.9	110	60-140	
Dibromochloromethane	ug/L	50	59.5	119	60-140	
Dibromomethane	ug/L	50	50.7	101	60-140	
Dichlorodifluoromethane	ug/L	50	44.4	89	60-140	
Diisopropyl ether	ug/L	50	55.1	110	60-140	
Ethylbenzene	ug/L	50	48.7	97	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.8	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	60-140	
m&p-Xylene	ug/L	100	98.1	98	60-140	
Methyl-tert-butyl ether	ug/L	50	53.3	107	60-140	
Methylene Chloride	ug/L	50	51.3	103	60-140	
n-Butylbenzene	ug/L	50	49.1	98	60-140	
n-Propylbenzene	ug/L	50	48.8	98	60-140	
Naphthalene	ug/L	50	49.7	99	60-140	
o-Xylene	ug/L	50	49.4	99	60-140	
sec-Butylbenzene	ug/L	50	49.3	99	60-140	
Styrene	ug/L	50	48.7	97	60-140	
tert-Butylbenzene	ug/L	50	42.5	85	60-140	
Tetrachloroethene	ug/L	50	46.1	92	60-140	
Toluene	ug/L	50	48.3	97	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.7	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	56.8	114	60-140	
Trichloroethene	ug/L	50	50.6	101	60-140	
Trichlorofluoromethane	ug/L	50	49.0	98	60-140	
Vinyl chloride	ug/L	50	46.1	92	60-140	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (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: 2020-LI-2448 Incident
Pace Project No.: 92512046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3107596 3107597

Parameter	Units	92512046001 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	26.5	25.6	132	128	60-140	3	
1,1,1-Trichloroethane	ug/L	ND	20	20	25.6	26.3	128	132	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	23.8	22.8	119	114	60-140	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.3	22.8	116	114	60-140	2	
1,1-Dichloroethane	ug/L	ND	20	20	24.6	24.7	123	123	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	25.2	25.6	126	128	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	25.5	129	128	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.3	21.5	112	107	60-140	4	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.3	22.9	111	114	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.8	21.7	109	109	60-140	0	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.5	20.7	107	104	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	26.3	23.8	132	119	60-140	10	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	24.4	23.3	122	116	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.1	23.1	110	115	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	22.6	23.1	113	116	60-140	2	
1,2-Dichloropropane	ug/L	ND	20	20	24.2	23.6	121	118	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.4	22.0	112	110	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.1	22.0	110	110	60-140	0	
1,3-Dichloropropane	ug/L	ND	20	20	24.5	24.0	123	120	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.4	21.3	112	107	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	27.9	28.0	139	140	60-140	0	
2-Chlorotoluene	ug/L	ND	20	20	23.1	22.6	116	113	60-140	2	
4-Chlorotoluene	ug/L	ND	20	20	22.9	21.7	114	108	60-140	5	
Benzene	ug/L	ND	20	20	23.5	22.7	118	113	60-140	4	
Bromobenzene	ug/L	ND	20	20	22.8	21.9	114	109	60-140	4	
Bromochloromethane	ug/L	ND	20	20	23.0	24.0	115	120	60-140	4	
Bromodichloromethane	ug/L	ND	20	20	22.2	22.4	111	112	60-140	1	
Bromoform	ug/L	ND	20	20	26.1	24.9	130	125	60-140	5	
Bromomethane	ug/L	ND	20	20	22.7	23.5	113	117	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	28.4	26.8	142	134	60-140	6	M1
Chlorobenzene	ug/L	ND	20	20	23.1	21.9	115	110	60-140	5	
Chloroethane	ug/L	ND	20	20	21.9	22.5	109	113	60-140	3	
Chloroform	ug/L	ND	20	20	22.8	23.7	113	117	60-140	4	
Chloromethane	ug/L	ND	20	20	22.1	21.0	111	105	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.8	24.7	124	123	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.4	24.4	122	122	60-140	0	
Dibromochloromethane	ug/L	ND	20	20	26.1	26.1	131	131	60-140	0	
Dibromomethane	ug/L	ND	20	20	22.4	22.5	112	113	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	18.1	18.1	91	90	60-140	0	
Diisopropyl ether	ug/L	ND	20	20	23.7	23.2	119	116	60-140	2	
Ethylbenzene	ug/L	ND	20	20	23.6	22.3	118	112	60-140	6	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.9	25.1	134	125	60-140	7	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.8	22.8	119	114	60-140	4	
m&p-Xylene	ug/L	ND	40	40	47.9	45.7	120	114	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.6	22.3	113	112	60-140	1	
Methylene Chloride	ug/L	ND	20	20	23.5	23.8	117	119	60-140	1	

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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.: 92512046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3107596 3107597

Parameter	Units	92512046001 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	23.6	23.0	118	115	60-140	2	
n-Propylbenzene	ug/L	ND	20	20	23.3	22.4	116	112	60-140	4	
Naphthalene	ug/L	ND	20	20	21.5	21.0	108	105	60-140	3	
o-Xylene	ug/L	ND	20	20	22.7	22.5	114	113	60-140	1	
sec-Butylbenzene	ug/L	ND	20	20	23.3	23.4	117	117	60-140	0	
Styrene	ug/L	ND	20	20	22.2	22.1	111	111	60-140	0	
tert-Butylbenzene	ug/L	ND	20	20	19.9	19.2	100	96	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	23.1	21.2	115	106	60-140	9	
Toluene	ug/L	ND	20	20	22.7	22.3	113	112	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.3	25.7	127	128	60-140	1	
trans-1,3-Dichloropropene	ug/L	ND	20	20	25.1	25.2	125	126	60-140	1	
Trichloroethene	ug/L	ND	20	20	23.4	22.4	117	112	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	23.5	23.7	118	118	60-140	1	
Vinyl chloride	ug/L	ND	20	20	20.8	20.9	104	105	60-140	0	
1,2-Dichloroethane-d4 (S)	%						105	112	70-130		
4-Bromofluorobenzene (S)	%						106	103	70-130		
Toluene-d8 (S)	%						101	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 Incident
Pace Project No.: 92512046

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-LI-2448 Incident
Pace Project No.: 92512046

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92512046001	**DUP-1**	MADEPV	1594916	MADEP VPH	1594916
92512046002	**FB-1**	MADEPV	1594916	MADEP VPH	1594916
92512046001	**DUP-1**	EPA 3010A	587334	EPA 6010D	587370
92512046002	**FB-1**	EPA 3010A	587334	EPA 6010D	587370
92512046001	**DUP-1**	SM 6200B	587941		
92512046002	**FB-1**	SM 6200B	587941		
92512046003	**Trip Blank**	SM 6200B	587941		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92512046

92512046

LAB USE O… …mber or

Container…

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 / 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	VOCs 6200B	MADEP VPH	Lead							Lab Sample # / Comments
DUP-1	DW	G	12.15.20	-				8	X	X	X							92512046 001
FB-1	OT	G	↓	-				8	X	X	X							002
Trip Blank	OT	-	↓	-				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: 232158AN			
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 #: 2561317

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: 4.5 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 4.4 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-15-20 1310	VS PACE HK	12/15/20 1310
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

January 05, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513342

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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.: 92513342

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.: 92513342

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513342001	**Dup-1**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92513342002	**FB-1**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92513342003	**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
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513342

Sample: Dup-1 **Lab ID: 92513342001** Collected: 12/22/20 00:00 Received: 12/22/20 13:30 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	12/31/20 23:34	12/31/20 23:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/31/20 23:34	12/31/20 23:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/31/20 23:34	12/31/20 23:34	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/31/20 23:34	12/31/20 23:34	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	12/31/20 23:34	12/31/20 23:34	615-59-8FID	
2,5-Dibromotoluene (PID)	91.7	%	70.0-130	1	12/31/20 23:34	12/31/20 23:34	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	01/03/21 13:58	01/04/21 15:59	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 12:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 12:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 12:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 12:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 12:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 12:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 12:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 12:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 12:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 12:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 12:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 12:35	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 12:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 12:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 12:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 12:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 12:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 12:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 12:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 12:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 12:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 12:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 12:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 12:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 12:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 12:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 12:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 12:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 12:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 12:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 12:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 12:35	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-L1-2448 Incident
Pace Project No.: 92513342

Sample: Dup-1 **Lab ID: 92513342001** Collected: 12/22/20 00:00 Received: 12/22/20 13:30 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		12/23/20 12:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 12:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 12:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 12:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 12:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 12:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 12:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 12:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 12:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 12:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 12:35	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 12:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 12:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 12:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 12:35	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 12:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 12:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 12:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 12:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 12:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 12:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 12:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 12:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 12:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 12:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 12:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 12:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 12:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/23/20 12:35	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/23/20 12:35	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		12/23/20 12:35	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: 2020-L1-2448 Incident
Pace Project No.: 92513342

Sample: FB-1 **Lab ID: 92513342002** Collected: 12/22/20 00:00 Received: 12/22/20 13:30 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	12/31/20 15:17	12/31/20 15:17		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/31/20 15:17	12/31/20 15:17		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/31/20 15:17	12/31/20 15:17	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/31/20 15:17	12/31/20 15:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.0	%	70.0-130	1	12/31/20 15:17	12/31/20 15:17	615-59-8FID	
2,5-Dibromotoluene (PID)	86.0	%	70.0-130	1	12/31/20 15:17	12/31/20 15:17	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	01/03/21 13:58	01/04/21 16:02	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 11:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 11:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 11:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 11:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 11:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 11:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 11:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 11:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 11:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 11:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 11:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 11:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 11:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 11:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 11:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 11:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 11:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 11:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 11:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 11:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 11:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 11:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 11:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 11:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 11:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 11:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 11:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 11:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 11:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 11:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 11:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 11:24	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.: 92513342

Sample: FB-1 **Lab ID: 92513342002** Collected: 12/22/20 00:00 Received: 12/22/20 13:30 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		12/23/20 11:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 11:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 11:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 11:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 11:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 11:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 11:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 11:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 11:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 11:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 11:24	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 11:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 11:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 11:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 11:24	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 11:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 11:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 11:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 11:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 11:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 11:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 11:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 11:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 11:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 11:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 11:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 11:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 11:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/23/20 11:24	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/23/20 11:24	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		12/23/20 11:24	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: 2020-L1-2448 Incident
Pace Project No.: 92513342

Sample: Trip Blank **Lab ID: 92513342003** Collected: 12/22/20 00:00 Received: 12/22/20 13:30 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		12/23/20 11:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 11:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 11:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 11:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 11:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 11:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 11:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 11:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 11:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 11:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 11:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 11:42	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 11:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 11:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 11:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 11:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 11:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 11:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 11:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 11:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 11:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 11:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 11:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 11:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 11:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 11:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 11:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 11:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 11:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 11:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 11:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 11:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/23/20 11:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 11:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 11:42	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 11:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 11:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 11:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 11:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 11:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 11:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 11:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 11:42	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 11:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 11:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 11:42	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: 2020-L1-2448 Incident
Pace Project No.: 92513342

Sample: Trip Blank **Lab ID: 92513342003** Collected: 12/22/20 00:00 Received: 12/22/20 13:30 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		12/23/20 11:42	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 11:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 11:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 11:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 11:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 11:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 11:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 11:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 11:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 11:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 11:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 11:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 11:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 11:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/23/20 11:42	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/23/20 11:42	460-00-4	
Toluene-d8 (S)	96	%	70-130	1		12/23/20 11:42	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: 2020-L1-2448 Incident
Pace Project No.: 92513342

QC Batch: 1599428
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92513342001, 92513342002

METHOD BLANK: R3609088-3 Matrix: Water
Associated Lab Samples: 92513342001, 92513342002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/31/20 14:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/31/20 14:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/31/20 14:12	
Total VPH	ug/L	ND	100	12/31/20 14:12	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	12/31/20 14:12	
2,5-Dibromotoluene (PID)	%	87.3	70.0-130	12/31/20 14:12	

LABORATORY CONTROL SAMPLE & LCSD: R3609088-1 R3609088-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1250	103	104	70.0-130	0.803	25	
Aliphatic (C09-C12)	ug/L	1400	1610	1600	115	114	70.0-130	0.623	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	238	236	119	118	70.0-130	0.844	25	
Total VPH	ug/L	2800	3090	3090	110	110	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				95.9	91.5	70.0-130			
2,5-Dibromotoluene (PID)	%				93.8	91.1	70.0-130			

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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.: 92513342

QC Batch: 590382
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513342001, 92513342002

METHOD BLANK: 3117388 Matrix: Water
Associated Lab Samples: 92513342001, 92513342002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/04/21 15:22	

LABORATORY CONTROL SAMPLE: 3117389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3117390 3117391

Parameter	Units	92513326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	489	492	98	98	75-125	1	

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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.: 92513342

QC Batch: 589048
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92513342001, 92513342002, 92513342003

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513342001, 92513342002, 92513342003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
2-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
4-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
Benzene	ug/L	ND	0.50	12/23/20 11:07	
Bromobenzene	ug/L	ND	0.50	12/23/20 11:07	
Bromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromodichloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromoform	ug/L	ND	0.50	12/23/20 11:07	
Bromomethane	ug/L	ND	5.0	12/23/20 11:07	
Carbon tetrachloride	ug/L	ND	0.50	12/23/20 11:07	
Chlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
Chloroethane	ug/L	ND	1.0	12/23/20 11:07	
Chloroform	ug/L	ND	0.50	12/23/20 11:07	
Chloromethane	ug/L	ND	1.0	12/23/20 11:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Dibromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Dibromomethane	ug/L	ND	0.50	12/23/20 11:07	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/20 11:07	
Diisopropyl ether	ug/L	ND	0.50	12/23/20 11:07	

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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.: 92513342

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513342001, 92513342002, 92513342003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/23/20 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/20 11:07	
m&p-Xylene	ug/L	ND	1.0	12/23/20 11:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/20 11:07	
Methylene Chloride	ug/L	ND	2.0	12/23/20 11:07	
n-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
n-Propylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Naphthalene	ug/L	ND	2.0	12/23/20 11:07	
o-Xylene	ug/L	ND	0.50	12/23/20 11:07	
sec-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Styrene	ug/L	ND	0.50	12/23/20 11:07	
tert-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Tetrachloroethene	ug/L	ND	0.50	12/23/20 11:07	
Toluene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Trichloroethene	ug/L	ND	0.50	12/23/20 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/20 11:07	
Vinyl chloride	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/23/20 11:07	
4-Bromofluorobenzene (S)	%	97	70-130	12/23/20 11:07	
Toluene-d8 (S)	%	98	70-130	12/23/20 11:07	

LABORATORY CONTROL SAMPLE: 3111836

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	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	44.4	89	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.7	121	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	61.2	122	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	62.6	125	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	60-140	
1,2-Dichlorobenzene	ug/L	50	59.7	119	60-140	
1,2-Dichloroethane	ug/L	50	40.1	80	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	59.7	119	60-140	

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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.: 92513342

LABORATORY CONTROL SAMPLE: 3111836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	60.1	120	60-140	
1,3-Dichloropropane	ug/L	50	56.1	112	60-140	
1,4-Dichlorobenzene	ug/L	50	60.0	120	60-140	
2,2-Dichloropropane	ug/L	50	45.2	90	60-140	
2-Chlorotoluene	ug/L	50	59.0	118	60-140	
4-Chlorotoluene	ug/L	50	57.8	116	60-140	
Benzene	ug/L	50	45.1	90	60-140	
Bromobenzene	ug/L	50	58.6	117	60-140	
Bromochloromethane	ug/L	50	45.3	91	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	61.5	123	60-140	
Bromomethane	ug/L	50	37.9	76	60-140	
Carbon tetrachloride	ug/L	50	46.3	93	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	35.9	72	60-140	
Chloroform	ug/L	50	41.7	83	60-140	
Chloromethane	ug/L	50	36.3	73	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Dibromochloromethane	ug/L	50	62.5	125	60-140	
Dibromomethane	ug/L	50	46.1	92	60-140	
Dichlorodifluoromethane	ug/L	50	41.4	83	60-140	
Diisopropyl ether	ug/L	50	42.3	85	60-140	
Ethylbenzene	ug/L	50	53.1	106	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	43.4	87	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	61.8	124	60-140	
n-Propylbenzene	ug/L	50	57.9	116	60-140	
Naphthalene	ug/L	50	62.2	124	60-140	
o-Xylene	ug/L	50	54.0	108	60-140	
sec-Butylbenzene	ug/L	50	60.2	120	60-140	
Styrene	ug/L	50	54.7	109	60-140	
tert-Butylbenzene	ug/L	50	49.2	98	60-140	
Tetrachloroethene	ug/L	50	53.2	106	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.1	80	60-140	
Vinyl chloride	ug/L	50	38.5	77	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	70-130	

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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.: 92513342

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 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	200	200	235	253	117	126	60-140	7	
1,1,1-Trichloroethane	ug/L	ND	200	200	189	212	95	106	60-140	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	228	242	114	121	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	200	200	193	202	97	101	60-140	4	
1,1-Dichloroethane	ug/L	ND	200	200	190	206	95	103	60-140	8	
1,1-Dichloroethene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,1-Dichloropropene	ug/L	ND	200	200	196	214	98	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	238	268	119	134	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	249	114	124	60-140	9	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	250	273	125	137	60-140	9	
1,2,4-Trimethylbenzene	ug/L	88.9	200	200	362	386	136	149	60-140	6	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	243	271	121	136	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	234	248	117	124	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	257	289	128	144	60-140	12	M1
1,2-Dichloroethane	ug/L	ND	200	200	172	186	86	93	60-140	8	
1,2-Dichloropropane	ug/L	ND	200	200	211	216	105	108	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	281	310	140	155	60-140	10	M1
1,3-Dichlorobenzene	ug/L	ND	200	200	264	285	132	143	60-140	8	M1
1,3-Dichloropropane	ug/L	ND	200	200	239	260	119	130	60-140	8	
1,4-Dichlorobenzene	ug/L	ND	200	200	252	280	126	140	60-140	10	
2,2-Dichloropropane	ug/L	ND	200	200	177	194	88	97	60-140	9	
2-Chlorotoluene	ug/L	ND	200	200	266	287	133	143	60-140	8	M1
4-Chlorotoluene	ug/L	ND	200	200	255	283	127	142	60-140	11	M1
Benzene	ug/L	332	200	200	555	557	112	112	60-140	0	
Bromobenzene	ug/L	ND	200	200	253	289	127	144	60-140	13	M1
Bromochloromethane	ug/L	ND	200	200	193	214	96	107	60-140	10	
Bromodichloromethane	ug/L	ND	200	200	195	205	98	103	60-140	5	
Bromoform	ug/L	ND	200	200	243	251	122	125	60-140	3	
Bromomethane	ug/L	ND	200	200	167	172	83	86	60-140	3	
Carbon tetrachloride	ug/L	ND	200	200	206	217	103	109	60-140	6	
Chlorobenzene	ug/L	ND	200	200	228	244	114	122	60-140	7	
Chloroethane	ug/L	ND	200	200	180	196	90	98	60-140	9	
Chloroform	ug/L	ND	200	200	180	196	90	98	60-140	8	
Chloromethane	ug/L	ND	200	200	161	172	81	86	60-140	7	
cis-1,2-Dichloroethene	ug/L	ND	200	200	183	198	91	99	60-140	8	
cis-1,3-Dichloropropene	ug/L	ND	200	200	206	220	103	110	60-140	7	
Dibromochloromethane	ug/L	ND	200	200	237	257	119	129	60-140	8	
Dibromomethane	ug/L	ND	200	200	204	217	102	109	60-140	6	
Dichlorodifluoromethane	ug/L	ND	200	200	173	189	87	95	60-140	9	
Diisopropyl ether	ug/L	ND	200	200	183	200	92	100	60-140	8	
Ethylbenzene	ug/L	91.8	200	200	327	344	118	126	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	220	267	110	133	60-140	19	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	240	259	118	127	60-140	8	
m&p-Xylene	ug/L	324	400	400	773	815	112	123	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	200	200	186	197	93	98	60-140	6	
Methylene Chloride	ug/L	ND	200	200	180	187	90	93	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.: 92513342

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	265	291	132	145	60-140	9	M1
n-Propylbenzene	ug/L	ND	200	200	274	293	137	146	60-140	7	M1
Naphthalene	ug/L	21.4	200	200	274	300	126	139	60-140	9	
o-Xylene	ug/L	168	200	200	402	414	117	123	60-140	3	
sec-Butylbenzene	ug/L	ND	200	200	263	290	132	145	60-140	10	M1
Styrene	ug/L	ND	200	200	234	246	117	123	60-140	5	
tert-Butylbenzene	ug/L	ND	200	200	224	248	112	124	60-140	10	
Tetrachloroethene	ug/L	ND	200	200	236	251	118	126	60-140	6	
Toluene	ug/L	951	200	200	1160	1180	105	114	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	188	203	94	101	60-140	7	
trans-1,3-Dichloropropene	ug/L	ND	200	200	196	211	98	105	60-140	7	
Trichloroethene	ug/L	ND	200	200	209	226	104	113	60-140	8	
Trichlorofluoromethane	ug/L	ND	200	200	181	196	90	98	60-140	8	
Vinyl chloride	ug/L	ND	200	200	172	184	86	92	60-140	7	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	92	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513342

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
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513342

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513342001	**Dup-1**	MADEPV	1599428	MADEP VPH	1599428
92513342002	**FB-1**	MADEPV	1599428	MADEP VPH	1599428
92513342001	**Dup-1**	EPA 3010A	590382	EPA 6010D	590389
92513342002	**FB-1**	EPA 3010A	590382	EPA 6010D	590389
92513342001	**Dup-1**	SM 6200B	589048		
92513342002	**FB-1**	SM 6200B	589048		
92513342003	**Trip Blank**	SM 6200B	589048		

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

WO#: 92513342

92513342

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 County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: — Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Naomi Fetz	Purchase Order #: Quote #: — DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fetz	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 **

** Preservative Types: (1) nitric acid, ... (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	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments: 92513342
Dup-1	DW	G	12-22-20	-				8	X	X	X	001
FB-1	OT	G	12-22-20	-				8	X	X	X	002
Trip Blank	OT	-	-	-				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:	232318AN
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 #: 2561308

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: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fetz / Apex	12-22-20 1330	[signature] / PACE Hu	12/22/20 1330

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

January 05, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513351

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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.: 92513351

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.: 92513351

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513351001	**13926A_HC_RD_20201222**	MADEP VPH	ACG	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-L1-2448 Incident
Pace Project No.: 92513351

Sample: 13926A_HC_RD_20201222 **Lab ID: 92513351001** Collected: 12/22/20 11:30 Received: 12/22/20 13:30 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	01/01/21 01:14	01/01/21 01:14		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/01/21 01:14	01/01/21 01:14		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/01/21 01:14	01/01/21 01:14	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/01/21 01:14	01/01/21 01:14	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.6	%	70.0-130	1	01/01/21 01:14	01/01/21 01:14	615-59-8FID	
2,5-Dibromotoluene (PID)	94.8	%	70.0-130	1	01/01/21 01:14	01/01/21 01:14	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	01/03/21 13:58	01/04/21 16:05	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 12:53	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 12:53	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 12:53	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 12:53	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 12:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 12:53	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 12:53	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 12:53	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 12:53	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 12:53	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 12:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 12:53	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 12:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 12:53	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 12:53	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 12:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 12:53	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 12:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 12:53	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 12:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 12:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 12:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 12:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 12:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 12:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 12:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 12:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 12:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 12:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 12:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 12:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 12:53	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-L1-2448 Incident
Pace Project No.: 92513351

Sample: 13926A_HC_RD_20201222 **Lab ID: 92513351001** Collected: 12/22/20 11:30 Received: 12/22/20 13:30 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		12/23/20 12:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 12:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 12:53	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 12:53	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 12:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 12:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 12:53	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 12:53	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 12:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 12:53	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 12:53	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 12:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 12:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 12:53	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 12:53	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 12:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 12:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 12:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 12:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 12:53	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 12:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 12:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 12:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 12:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 12:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 12:53	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 12:53	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 12:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/23/20 12:53	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/23/20 12:53	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		12/23/20 12:53	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-L1-2448 Incident
Pace Project No.: 92513351

QC Batch: 1599428
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513351001

METHOD BLANK: R3609088-3 Matrix: Water
Associated Lab Samples: 92513351001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/31/20 14:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/31/20 14:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/31/20 14:12	
Total VPH	ug/L	ND	100	12/31/20 14:12	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	12/31/20 14:12	
2,5-Dibromotoluene (PID)	%	87.3	70.0-130	12/31/20 14:12	

LABORATORY CONTROL SAMPLE & LCSD: R3609088-1 R3609088-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1250	103	104	70.0-130	0.803	25	
Aliphatic (C09-C12)	ug/L	1400	1610	1600	115	114	70.0-130	0.623	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	238	236	119	118	70.0-130	0.844	25	
Total VPH	ug/L	2800	3090	3090	110	110	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				95.9	91.5	70.0-130			
2,5-Dibromotoluene (PID)	%				93.8	91.1	70.0-130			

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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.: 92513351

QC Batch: 590382
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513351001

METHOD BLANK: 3117388 Matrix: Water
Associated Lab Samples: 92513351001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/04/21 15:22	

LABORATORY CONTROL SAMPLE: 3117389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3117390 3117391

Parameter	Units	92513326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	489	492	98	98	75-125	1	

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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.: 92513351

QC Batch: 589048
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513351001

METHOD BLANK: 3111835 Matrix: Water

Associated Lab Samples: 92513351001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
2-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
4-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
Benzene	ug/L	ND	0.50	12/23/20 11:07	
Bromobenzene	ug/L	ND	0.50	12/23/20 11:07	
Bromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromodichloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromoform	ug/L	ND	0.50	12/23/20 11:07	
Bromomethane	ug/L	ND	5.0	12/23/20 11:07	
Carbon tetrachloride	ug/L	ND	0.50	12/23/20 11:07	
Chlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
Chloroethane	ug/L	ND	1.0	12/23/20 11:07	
Chloroform	ug/L	ND	0.50	12/23/20 11:07	
Chloromethane	ug/L	ND	1.0	12/23/20 11:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Dibromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Dibromomethane	ug/L	ND	0.50	12/23/20 11:07	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/20 11:07	
Diisopropyl ether	ug/L	ND	0.50	12/23/20 11:07	

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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.: 92513351

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513351001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/23/20 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/20 11:07	
m&p-Xylene	ug/L	ND	1.0	12/23/20 11:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/20 11:07	
Methylene Chloride	ug/L	ND	2.0	12/23/20 11:07	
n-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
n-Propylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Naphthalene	ug/L	ND	2.0	12/23/20 11:07	
o-Xylene	ug/L	ND	0.50	12/23/20 11:07	
sec-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Styrene	ug/L	ND	0.50	12/23/20 11:07	
tert-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Tetrachloroethene	ug/L	ND	0.50	12/23/20 11:07	
Toluene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Trichloroethene	ug/L	ND	0.50	12/23/20 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/20 11:07	
Vinyl chloride	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/23/20 11:07	
4-Bromofluorobenzene (S)	%	97	70-130	12/23/20 11:07	
Toluene-d8 (S)	%	98	70-130	12/23/20 11:07	

LABORATORY CONTROL SAMPLE: 3111836

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	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	44.4	89	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.7	121	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	61.2	122	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	62.6	125	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	60-140	
1,2-Dichlorobenzene	ug/L	50	59.7	119	60-140	
1,2-Dichloroethane	ug/L	50	40.1	80	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	59.7	119	60-140	

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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.: 92513351

LABORATORY CONTROL SAMPLE: 3111836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	60.1	120	60-140	
1,3-Dichloropropane	ug/L	50	56.1	112	60-140	
1,4-Dichlorobenzene	ug/L	50	60.0	120	60-140	
2,2-Dichloropropane	ug/L	50	45.2	90	60-140	
2-Chlorotoluene	ug/L	50	59.0	118	60-140	
4-Chlorotoluene	ug/L	50	57.8	116	60-140	
Benzene	ug/L	50	45.1	90	60-140	
Bromobenzene	ug/L	50	58.6	117	60-140	
Bromochloromethane	ug/L	50	45.3	91	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	61.5	123	60-140	
Bromomethane	ug/L	50	37.9	76	60-140	
Carbon tetrachloride	ug/L	50	46.3	93	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	35.9	72	60-140	
Chloroform	ug/L	50	41.7	83	60-140	
Chloromethane	ug/L	50	36.3	73	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Dibromochloromethane	ug/L	50	62.5	125	60-140	
Dibromomethane	ug/L	50	46.1	92	60-140	
Dichlorodifluoromethane	ug/L	50	41.4	83	60-140	
Diisopropyl ether	ug/L	50	42.3	85	60-140	
Ethylbenzene	ug/L	50	53.1	106	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	43.4	87	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	61.8	124	60-140	
n-Propylbenzene	ug/L	50	57.9	116	60-140	
Naphthalene	ug/L	50	62.2	124	60-140	
o-Xylene	ug/L	50	54.0	108	60-140	
sec-Butylbenzene	ug/L	50	60.2	120	60-140	
Styrene	ug/L	50	54.7	109	60-140	
tert-Butylbenzene	ug/L	50	49.2	98	60-140	
Tetrachloroethene	ug/L	50	53.2	106	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.1	80	60-140	
Vinyl chloride	ug/L	50	38.5	77	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	70-130	

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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.: 92513351

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 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	200	200	235	253	117	126	60-140	7	
1,1,1-Trichloroethane	ug/L	ND	200	200	189	212	95	106	60-140	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	228	242	114	121	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	200	200	193	202	97	101	60-140	4	
1,1-Dichloroethane	ug/L	ND	200	200	190	206	95	103	60-140	8	
1,1-Dichloroethene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,1-Dichloropropene	ug/L	ND	200	200	196	214	98	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	238	268	119	134	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	249	114	124	60-140	9	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	250	273	125	137	60-140	9	
1,2,4-Trimethylbenzene	ug/L	88.9	200	200	362	386	136	149	60-140	6	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	243	271	121	136	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	234	248	117	124	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	257	289	128	144	60-140	12	M1
1,2-Dichloroethane	ug/L	ND	200	200	172	186	86	93	60-140	8	
1,2-Dichloropropane	ug/L	ND	200	200	211	216	105	108	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	281	310	140	155	60-140	10	M1
1,3-Dichlorobenzene	ug/L	ND	200	200	264	285	132	143	60-140	8	M1
1,3-Dichloropropane	ug/L	ND	200	200	239	260	119	130	60-140	8	
1,4-Dichlorobenzene	ug/L	ND	200	200	252	280	126	140	60-140	10	
2,2-Dichloropropane	ug/L	ND	200	200	177	194	88	97	60-140	9	
2-Chlorotoluene	ug/L	ND	200	200	266	287	133	143	60-140	8	M1
4-Chlorotoluene	ug/L	ND	200	200	255	283	127	142	60-140	11	M1
Benzene	ug/L	332	200	200	555	557	112	112	60-140	0	
Bromobenzene	ug/L	ND	200	200	253	289	127	144	60-140	13	M1
Bromochloromethane	ug/L	ND	200	200	193	214	96	107	60-140	10	
Bromodichloromethane	ug/L	ND	200	200	195	205	98	103	60-140	5	
Bromoform	ug/L	ND	200	200	243	251	122	125	60-140	3	
Bromomethane	ug/L	ND	200	200	167	172	83	86	60-140	3	
Carbon tetrachloride	ug/L	ND	200	200	206	217	103	109	60-140	6	
Chlorobenzene	ug/L	ND	200	200	228	244	114	122	60-140	7	
Chloroethane	ug/L	ND	200	200	180	196	90	98	60-140	9	
Chloroform	ug/L	ND	200	200	180	196	90	98	60-140	8	
Chloromethane	ug/L	ND	200	200	161	172	81	86	60-140	7	
cis-1,2-Dichloroethene	ug/L	ND	200	200	183	198	91	99	60-140	8	
cis-1,3-Dichloropropene	ug/L	ND	200	200	206	220	103	110	60-140	7	
Dibromochloromethane	ug/L	ND	200	200	237	257	119	129	60-140	8	
Dibromomethane	ug/L	ND	200	200	204	217	102	109	60-140	6	
Dichlorodifluoromethane	ug/L	ND	200	200	173	189	87	95	60-140	9	
Diisopropyl ether	ug/L	ND	200	200	183	200	92	100	60-140	8	
Ethylbenzene	ug/L	91.8	200	200	327	344	118	126	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	220	267	110	133	60-140	19	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	240	259	118	127	60-140	8	
m&p-Xylene	ug/L	324	400	400	773	815	112	123	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	200	200	186	197	93	98	60-140	6	
Methylene Chloride	ug/L	ND	200	200	180	187	90	93	60-140	4	

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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.: 92513351

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	265	291	132	145	60-140	9	M1
n-Propylbenzene	ug/L	ND	200	200	274	293	137	146	60-140	7	M1
Naphthalene	ug/L	21.4	200	200	274	300	126	139	60-140	9	
o-Xylene	ug/L	168	200	200	402	414	117	123	60-140	3	
sec-Butylbenzene	ug/L	ND	200	200	263	290	132	145	60-140	10	M1
Styrene	ug/L	ND	200	200	234	246	117	123	60-140	5	
tert-Butylbenzene	ug/L	ND	200	200	224	248	112	124	60-140	10	
Tetrachloroethene	ug/L	ND	200	200	236	251	118	126	60-140	6	
Toluene	ug/L	951	200	200	1160	1180	105	114	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	188	203	94	101	60-140	7	
trans-1,3-Dichloropropene	ug/L	ND	200	200	196	211	98	105	60-140	7	
Trichloroethene	ug/L	ND	200	200	209	226	104	113	60-140	8	
Trichlorofluoromethane	ug/L	ND	200	200	181	196	90	98	60-140	8	
Vinyl chloride	ug/L	ND	200	200	172	184	86	92	60-140	7	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	92	70-130		

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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.: 92513351

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.: 92513351

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513351001	**13926A_HC_RD_20201222**	MADEPV	1599428	MADEP VPH	1599428
92513351001	**13926A_HC_RD_20201222**	EPA 3010A	590382	EPA 6010D	590389
92513351001	**13926A_HC_RD_20201222**	SM 6200B	589048		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ON

WO# : 92513351

92513351

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: 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 Fritz	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:

** 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 8260B	MADEP VPH	Lead	Lab Profile/Line:
13926A-HC-PD-20201222	DW	G	12-22-20	1130				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)
Cl Strips:	
Sample pH Acceptable	(Y) N NA
pH Strips: 232518AW	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:
92513351

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 #: 2561311

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: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fritz / Apex	12-22-20 1330	[signature] Pace Hu	12/22/20 1330
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

January 05, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513354

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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.: 92513354

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
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92513354

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513354001	**13835_AC_RD_20201222**	MADEP VPH	ACG	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513354

Sample: 13835_AC_RD_20201222 **Lab ID: 92513354001** Collected: 12/22/20 10:10 Received: 12/22/20 13:30 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	12/31/20 23:01	12/31/20 23:01		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/31/20 23:01	12/31/20 23:01		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/31/20 23:01	12/31/20 23:01	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/31/20 23:01	12/31/20 23:01	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.9	%	70.0-130	1	12/31/20 23:01	12/31/20 23:01	615-59-8FID	
2,5-Dibromotoluene (PID)	88.6	%	70.0-130	1	12/31/20 23:01	12/31/20 23:01	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	01/03/21 13:58	01/04/21 16:15	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 13:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 13:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 13:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 13:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 13:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 13:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 13:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 13:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 13:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 13:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 13:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 13:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 13:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 13:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 13:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 13:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 13:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 13:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 13:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:10	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513354

Sample: 13835_AC_RD_20201222 **Lab ID: 92513354001** Collected: 12/22/20 10:10 Received: 12/22/20 13:30 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		12/23/20 13:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 13:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 13:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 13:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 13:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 13:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 13:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 13:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 13:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 13:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 13:10	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 13:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 13:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 13:10	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 13:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 13:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 13:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 13:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 13:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 13:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 13:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 13:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 13:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 13:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 13:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 13:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 13:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/23/20 13:10	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/23/20 13:10	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/23/20 13:10	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.: 92513354

QC Batch: 1599428
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513354001

METHOD BLANK: R3609088-3 Matrix: Water
Associated Lab Samples: 92513354001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/31/20 14:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/31/20 14:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/31/20 14:12	
Total VPH	ug/L	ND	100	12/31/20 14:12	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	12/31/20 14:12	
2,5-Dibromotoluene (PID)	%	87.3	70.0-130	12/31/20 14:12	

LABORATORY CONTROL SAMPLE & LCSD: R3609088-1 R3609088-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1250	103	104	70.0-130	0.803	25	
Aliphatic (C09-C12)	ug/L	1400	1610	1600	115	114	70.0-130	0.623	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	238	236	119	118	70.0-130	0.844	25	
Total VPH	ug/L	2800	3090	3090	110	110	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				95.9	91.5	70.0-130			
2,5-Dibromotoluene (PID)	%				93.8	91.1	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.: 92513354

QC Batch: 590382
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92513354001

METHOD BLANK: 3117388 Matrix: Water
Associated Lab Samples: 92513354001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/04/21 15:22	

LABORATORY CONTROL SAMPLE: 3117389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3117390 3117391

Parameter	Units	92513326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	489	492	98	98	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
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513354

QC Batch: 589048
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513354001

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513354001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
2-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
4-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
Benzene	ug/L	ND	0.50	12/23/20 11:07	
Bromobenzene	ug/L	ND	0.50	12/23/20 11:07	
Bromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromodichloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromoform	ug/L	ND	0.50	12/23/20 11:07	
Bromomethane	ug/L	ND	5.0	12/23/20 11:07	
Carbon tetrachloride	ug/L	ND	0.50	12/23/20 11:07	
Chlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
Chloroethane	ug/L	ND	1.0	12/23/20 11:07	
Chloroform	ug/L	ND	0.50	12/23/20 11:07	
Chloromethane	ug/L	ND	1.0	12/23/20 11:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Dibromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Dibromomethane	ug/L	ND	0.50	12/23/20 11:07	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/20 11:07	
Diisopropyl ether	ug/L	ND	0.50	12/23/20 11:07	

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

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.: 92513354

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513354001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/23/20 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/20 11:07	
m&p-Xylene	ug/L	ND	1.0	12/23/20 11:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/20 11:07	
Methylene Chloride	ug/L	ND	2.0	12/23/20 11:07	
n-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
n-Propylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Naphthalene	ug/L	ND	2.0	12/23/20 11:07	
o-Xylene	ug/L	ND	0.50	12/23/20 11:07	
sec-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Styrene	ug/L	ND	0.50	12/23/20 11:07	
tert-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Tetrachloroethene	ug/L	ND	0.50	12/23/20 11:07	
Toluene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Trichloroethene	ug/L	ND	0.50	12/23/20 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/20 11:07	
Vinyl chloride	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/23/20 11:07	
4-Bromofluorobenzene (S)	%	97	70-130	12/23/20 11:07	
Toluene-d8 (S)	%	98	70-130	12/23/20 11:07	

LABORATORY CONTROL SAMPLE: 3111836

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	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	44.4	89	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.7	121	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	61.2	122	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	62.6	125	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	60-140	
1,2-Dichlorobenzene	ug/L	50	59.7	119	60-140	
1,2-Dichloroethane	ug/L	50	40.1	80	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	59.7	119	60-140	

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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.: 92513354

LABORATORY CONTROL SAMPLE: 3111836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	60.1	120	60-140	
1,3-Dichloropropane	ug/L	50	56.1	112	60-140	
1,4-Dichlorobenzene	ug/L	50	60.0	120	60-140	
2,2-Dichloropropane	ug/L	50	45.2	90	60-140	
2-Chlorotoluene	ug/L	50	59.0	118	60-140	
4-Chlorotoluene	ug/L	50	57.8	116	60-140	
Benzene	ug/L	50	45.1	90	60-140	
Bromobenzene	ug/L	50	58.6	117	60-140	
Bromochloromethane	ug/L	50	45.3	91	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	61.5	123	60-140	
Bromomethane	ug/L	50	37.9	76	60-140	
Carbon tetrachloride	ug/L	50	46.3	93	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	35.9	72	60-140	
Chloroform	ug/L	50	41.7	83	60-140	
Chloromethane	ug/L	50	36.3	73	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Dibromochloromethane	ug/L	50	62.5	125	60-140	
Dibromomethane	ug/L	50	46.1	92	60-140	
Dichlorodifluoromethane	ug/L	50	41.4	83	60-140	
Diisopropyl ether	ug/L	50	42.3	85	60-140	
Ethylbenzene	ug/L	50	53.1	106	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	43.4	87	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	61.8	124	60-140	
n-Propylbenzene	ug/L	50	57.9	116	60-140	
Naphthalene	ug/L	50	62.2	124	60-140	
o-Xylene	ug/L	50	54.0	108	60-140	
sec-Butylbenzene	ug/L	50	60.2	120	60-140	
Styrene	ug/L	50	54.7	109	60-140	
tert-Butylbenzene	ug/L	50	49.2	98	60-140	
Tetrachloroethene	ug/L	50	53.2	106	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.1	80	60-140	
Vinyl chloride	ug/L	50	38.5	77	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	70-130	

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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.: 92513354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 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	200	200	235	253	117	126	60-140	7	
1,1,1-Trichloroethane	ug/L	ND	200	200	189	212	95	106	60-140	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	228	242	114	121	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	200	200	193	202	97	101	60-140	4	
1,1-Dichloroethane	ug/L	ND	200	200	190	206	95	103	60-140	8	
1,1-Dichloroethene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,1-Dichloropropene	ug/L	ND	200	200	196	214	98	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	238	268	119	134	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	249	114	124	60-140	9	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	250	273	125	137	60-140	9	
1,2,4-Trimethylbenzene	ug/L	88.9	200	200	362	386	136	149	60-140	6	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	243	271	121	136	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	234	248	117	124	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	257	289	128	144	60-140	12	M1
1,2-Dichloroethane	ug/L	ND	200	200	172	186	86	93	60-140	8	
1,2-Dichloropropane	ug/L	ND	200	200	211	216	105	108	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	281	310	140	155	60-140	10	M1
1,3-Dichlorobenzene	ug/L	ND	200	200	264	285	132	143	60-140	8	M1
1,3-Dichloropropane	ug/L	ND	200	200	239	260	119	130	60-140	8	
1,4-Dichlorobenzene	ug/L	ND	200	200	252	280	126	140	60-140	10	
2,2-Dichloropropane	ug/L	ND	200	200	177	194	88	97	60-140	9	
2-Chlorotoluene	ug/L	ND	200	200	266	287	133	143	60-140	8	M1
4-Chlorotoluene	ug/L	ND	200	200	255	283	127	142	60-140	11	M1
Benzene	ug/L	332	200	200	555	557	112	112	60-140	0	
Bromobenzene	ug/L	ND	200	200	253	289	127	144	60-140	13	M1
Bromochloromethane	ug/L	ND	200	200	193	214	96	107	60-140	10	
Bromodichloromethane	ug/L	ND	200	200	195	205	98	103	60-140	5	
Bromoform	ug/L	ND	200	200	243	251	122	125	60-140	3	
Bromomethane	ug/L	ND	200	200	167	172	83	86	60-140	3	
Carbon tetrachloride	ug/L	ND	200	200	206	217	103	109	60-140	6	
Chlorobenzene	ug/L	ND	200	200	228	244	114	122	60-140	7	
Chloroethane	ug/L	ND	200	200	180	196	90	98	60-140	9	
Chloroform	ug/L	ND	200	200	180	196	90	98	60-140	8	
Chloromethane	ug/L	ND	200	200	161	172	81	86	60-140	7	
cis-1,2-Dichloroethene	ug/L	ND	200	200	183	198	91	99	60-140	8	
cis-1,3-Dichloropropene	ug/L	ND	200	200	206	220	103	110	60-140	7	
Dibromochloromethane	ug/L	ND	200	200	237	257	119	129	60-140	8	
Dibromomethane	ug/L	ND	200	200	204	217	102	109	60-140	6	
Dichlorodifluoromethane	ug/L	ND	200	200	173	189	87	95	60-140	9	
Diisopropyl ether	ug/L	ND	200	200	183	200	92	100	60-140	8	
Ethylbenzene	ug/L	91.8	200	200	327	344	118	126	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	220	267	110	133	60-140	19	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	240	259	118	127	60-140	8	
m&p-Xylene	ug/L	324	400	400	773	815	112	123	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	200	200	186	197	93	98	60-140	6	
Methylene Chloride	ug/L	ND	200	200	180	187	90	93	60-140	4	

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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.: 92513354

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	265	291	132	145	60-140	9	M1
n-Propylbenzene	ug/L	ND	200	200	274	293	137	146	60-140	7	M1
Naphthalene	ug/L	21.4	200	200	274	300	126	139	60-140	9	
o-Xylene	ug/L	168	200	200	402	414	117	123	60-140	3	
sec-Butylbenzene	ug/L	ND	200	200	263	290	132	145	60-140	10	M1
Styrene	ug/L	ND	200	200	234	246	117	123	60-140	5	
tert-Butylbenzene	ug/L	ND	200	200	224	248	112	124	60-140	10	
Tetrachloroethene	ug/L	ND	200	200	236	251	118	126	60-140	6	
Toluene	ug/L	951	200	200	1160	1180	105	114	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	188	203	94	101	60-140	7	
trans-1,3-Dichloropropene	ug/L	ND	200	200	196	211	98	105	60-140	7	
Trichloroethene	ug/L	ND	200	200	209	226	104	113	60-140	8	
Trichlorofluoromethane	ug/L	ND	200	200	181	196	90	98	60-140	8	
Vinyl chloride	ug/L	ND	200	200	172	184	86	92	60-140	7	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	92	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513354

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
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513354

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513354001	**13835_AC_RD_20201222**	MADEPV	1599428	MADEP VPH	1599428
92513354001	**13835_AC_RD_20201222**	EPA 3010A	590382	EPA 6010D	590389
92513354001	**13835_AC_RD_20201222**	SM 6200B	589048		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ONLY

WO# : 92513354

92513354

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: 2020-4-2448 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	MADEP VPH	Lead	Lab Sample # / Comments
13835_AC_RD_20201222	DW	G	12-22-20	1010				8	X	X	X	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: 232518AV	
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 #: 2561307

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: 5.6 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.5 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-22-20 / 1330	[signature] MACE Hall	12/22/20 1330
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

January 05, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513359

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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.: 92513359

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.: 92513359

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513359001	**14226_HC_RD_20201222**	MADEP VPH	ACG	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-L1-2448 Incident
Pace Project No.: 92513359

Sample: 14226_HC_RD_20201222 **Lab ID: 92513359001** Collected: 12/22/20 09:40 Received: 12/22/20 13:30 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	01/01/21 00:40	01/01/21 00:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/01/21 00:40	01/01/21 00:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/01/21 00:40	01/01/21 00:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/01/21 00:40	01/01/21 00:40	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	01/01/21 00:40	01/01/21 00:40	615-59-8FID	
2,5-Dibromotoluene (PID)	92.3	%	70.0-130	1	01/01/21 00:40	01/01/21 00:40	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	01/03/21 13:58	01/04/21 16:18	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 13:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 13:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 13:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 13:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 13:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 13:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 13:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 13:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 13:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 13:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 13:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 13:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 13:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 13:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 13:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 13:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 13:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 13:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 13:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 13:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:28	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-L1-2448 Incident
Pace Project No.: 92513359

Sample: 14226_HC_RD_20201222 **Lab ID: 92513359001** Collected: 12/22/20 09:40 Received: 12/22/20 13:30 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		12/23/20 13:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 13:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 13:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 13:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 13:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 13:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 13:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 13:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 13:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 13:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 13:28	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 13:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 13:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 13:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 13:28	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 13:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 13:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 13:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 13:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 13:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 13:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 13:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 13:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 13:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 13:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 13:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 13:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 13:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		12/23/20 13:28	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/23/20 13:28	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/23/20 13:28	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-L1-2448 Incident
Pace Project No.: 92513359

QC Batch: 1599428
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513359001

METHOD BLANK: R3609088-3 Matrix: Water
Associated Lab Samples: 92513359001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/31/20 14:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/31/20 14:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/31/20 14:12	
Total VPH	ug/L	ND	100	12/31/20 14:12	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	12/31/20 14:12	
2,5-Dibromotoluene (PID)	%	87.3	70.0-130	12/31/20 14:12	

LABORATORY CONTROL SAMPLE & LCSD: R3609088-1 R3609088-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1250	103	104	70.0-130	0.803	25	
Aliphatic (C09-C12)	ug/L	1400	1610	1600	115	114	70.0-130	0.623	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	238	236	119	118	70.0-130	0.844	25	
Total VPH	ug/L	2800	3090	3090	110	110	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				95.9	91.5	70.0-130			
2,5-Dibromotoluene (PID)	%				93.8	91.1	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.: 92513359

QC Batch: 590382
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92513359001

METHOD BLANK: 3117388 Matrix: Water
Associated Lab Samples: 92513359001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/04/21 15:22	

LABORATORY CONTROL SAMPLE: 3117389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3117390 3117391

Parameter	Units	92513326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	489	492	98	98	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513359

QC Batch: 589048
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513359001

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513359001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
2-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
4-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
Benzene	ug/L	ND	0.50	12/23/20 11:07	
Bromobenzene	ug/L	ND	0.50	12/23/20 11:07	
Bromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromodichloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromoform	ug/L	ND	0.50	12/23/20 11:07	
Bromomethane	ug/L	ND	5.0	12/23/20 11:07	
Carbon tetrachloride	ug/L	ND	0.50	12/23/20 11:07	
Chlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
Chloroethane	ug/L	ND	1.0	12/23/20 11:07	
Chloroform	ug/L	ND	0.50	12/23/20 11:07	
Chloromethane	ug/L	ND	1.0	12/23/20 11:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Dibromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Dibromomethane	ug/L	ND	0.50	12/23/20 11:07	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/20 11:07	
Diisopropyl ether	ug/L	ND	0.50	12/23/20 11:07	

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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.: 92513359

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513359001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/23/20 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/20 11:07	
m&p-Xylene	ug/L	ND	1.0	12/23/20 11:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/20 11:07	
Methylene Chloride	ug/L	ND	2.0	12/23/20 11:07	
n-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
n-Propylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Naphthalene	ug/L	ND	2.0	12/23/20 11:07	
o-Xylene	ug/L	ND	0.50	12/23/20 11:07	
sec-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Styrene	ug/L	ND	0.50	12/23/20 11:07	
tert-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Tetrachloroethene	ug/L	ND	0.50	12/23/20 11:07	
Toluene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Trichloroethene	ug/L	ND	0.50	12/23/20 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/20 11:07	
Vinyl chloride	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/23/20 11:07	
4-Bromofluorobenzene (S)	%	97	70-130	12/23/20 11:07	
Toluene-d8 (S)	%	98	70-130	12/23/20 11:07	

LABORATORY CONTROL SAMPLE: 3111836

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	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	44.4	89	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.7	121	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	61.2	122	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	62.6	125	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	60-140	
1,2-Dichlorobenzene	ug/L	50	59.7	119	60-140	
1,2-Dichloroethane	ug/L	50	40.1	80	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	59.7	119	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.: 92513359

LABORATORY CONTROL SAMPLE: 3111836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	60.1	120	60-140	
1,3-Dichloropropane	ug/L	50	56.1	112	60-140	
1,4-Dichlorobenzene	ug/L	50	60.0	120	60-140	
2,2-Dichloropropane	ug/L	50	45.2	90	60-140	
2-Chlorotoluene	ug/L	50	59.0	118	60-140	
4-Chlorotoluene	ug/L	50	57.8	116	60-140	
Benzene	ug/L	50	45.1	90	60-140	
Bromobenzene	ug/L	50	58.6	117	60-140	
Bromochloromethane	ug/L	50	45.3	91	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	61.5	123	60-140	
Bromomethane	ug/L	50	37.9	76	60-140	
Carbon tetrachloride	ug/L	50	46.3	93	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	35.9	72	60-140	
Chloroform	ug/L	50	41.7	83	60-140	
Chloromethane	ug/L	50	36.3	73	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Dibromochloromethane	ug/L	50	62.5	125	60-140	
Dibromomethane	ug/L	50	46.1	92	60-140	
Dichlorodifluoromethane	ug/L	50	41.4	83	60-140	
Diisopropyl ether	ug/L	50	42.3	85	60-140	
Ethylbenzene	ug/L	50	53.1	106	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	43.4	87	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	61.8	124	60-140	
n-Propylbenzene	ug/L	50	57.9	116	60-140	
Naphthalene	ug/L	50	62.2	124	60-140	
o-Xylene	ug/L	50	54.0	108	60-140	
sec-Butylbenzene	ug/L	50	60.2	120	60-140	
Styrene	ug/L	50	54.7	109	60-140	
tert-Butylbenzene	ug/L	50	49.2	98	60-140	
Tetrachloroethene	ug/L	50	53.2	106	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.1	80	60-140	
Vinyl chloride	ug/L	50	38.5	77	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	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.: 92513359

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 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	200	200	235	253	117	126	60-140	7	
1,1,1-Trichloroethane	ug/L	ND	200	200	189	212	95	106	60-140	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	228	242	114	121	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	200	200	193	202	97	101	60-140	4	
1,1-Dichloroethane	ug/L	ND	200	200	190	206	95	103	60-140	8	
1,1-Dichloroethene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,1-Dichloropropene	ug/L	ND	200	200	196	214	98	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	238	268	119	134	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	249	114	124	60-140	9	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	250	273	125	137	60-140	9	
1,2,4-Trimethylbenzene	ug/L	88.9	200	200	362	386	136	149	60-140	6	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	243	271	121	136	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	234	248	117	124	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	257	289	128	144	60-140	12	M1
1,2-Dichloroethane	ug/L	ND	200	200	172	186	86	93	60-140	8	
1,2-Dichloropropane	ug/L	ND	200	200	211	216	105	108	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	281	310	140	155	60-140	10	M1
1,3-Dichlorobenzene	ug/L	ND	200	200	264	285	132	143	60-140	8	M1
1,3-Dichloropropane	ug/L	ND	200	200	239	260	119	130	60-140	8	
1,4-Dichlorobenzene	ug/L	ND	200	200	252	280	126	140	60-140	10	
2,2-Dichloropropane	ug/L	ND	200	200	177	194	88	97	60-140	9	
2-Chlorotoluene	ug/L	ND	200	200	266	287	133	143	60-140	8	M1
4-Chlorotoluene	ug/L	ND	200	200	255	283	127	142	60-140	11	M1
Benzene	ug/L	332	200	200	555	557	112	112	60-140	0	
Bromobenzene	ug/L	ND	200	200	253	289	127	144	60-140	13	M1
Bromochloromethane	ug/L	ND	200	200	193	214	96	107	60-140	10	
Bromodichloromethane	ug/L	ND	200	200	195	205	98	103	60-140	5	
Bromoform	ug/L	ND	200	200	243	251	122	125	60-140	3	
Bromomethane	ug/L	ND	200	200	167	172	83	86	60-140	3	
Carbon tetrachloride	ug/L	ND	200	200	206	217	103	109	60-140	6	
Chlorobenzene	ug/L	ND	200	200	228	244	114	122	60-140	7	
Chloroethane	ug/L	ND	200	200	180	196	90	98	60-140	9	
Chloroform	ug/L	ND	200	200	180	196	90	98	60-140	8	
Chloromethane	ug/L	ND	200	200	161	172	81	86	60-140	7	
cis-1,2-Dichloroethene	ug/L	ND	200	200	183	198	91	99	60-140	8	
cis-1,3-Dichloropropene	ug/L	ND	200	200	206	220	103	110	60-140	7	
Dibromochloromethane	ug/L	ND	200	200	237	257	119	129	60-140	8	
Dibromomethane	ug/L	ND	200	200	204	217	102	109	60-140	6	
Dichlorodifluoromethane	ug/L	ND	200	200	173	189	87	95	60-140	9	
Diisopropyl ether	ug/L	ND	200	200	183	200	92	100	60-140	8	
Ethylbenzene	ug/L	91.8	200	200	327	344	118	126	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	220	267	110	133	60-140	19	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	240	259	118	127	60-140	8	
m&p-Xylene	ug/L	324	400	400	773	815	112	123	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	200	200	186	197	93	98	60-140	6	
Methylene Chloride	ug/L	ND	200	200	180	187	90	93	60-140	4	

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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.: 92513359

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	265	291	132	145	60-140	9	M1
n-Propylbenzene	ug/L	ND	200	200	274	293	137	146	60-140	7	M1
Naphthalene	ug/L	21.4	200	200	274	300	126	139	60-140	9	
o-Xylene	ug/L	168	200	200	402	414	117	123	60-140	3	
sec-Butylbenzene	ug/L	ND	200	200	263	290	132	145	60-140	10	M1
Styrene	ug/L	ND	200	200	234	246	117	123	60-140	5	
tert-Butylbenzene	ug/L	ND	200	200	224	248	112	124	60-140	10	
Tetrachloroethene	ug/L	ND	200	200	236	251	118	126	60-140	6	
Toluene	ug/L	951	200	200	1160	1180	105	114	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	188	203	94	101	60-140	7	
trans-1,3-Dichloropropene	ug/L	ND	200	200	196	211	98	105	60-140	7	
Trichloroethene	ug/L	ND	200	200	209	226	104	113	60-140	8	
Trichlorofluoromethane	ug/L	ND	200	200	181	196	90	98	60-140	8	
Vinyl chloride	ug/L	ND	200	200	172	184	86	92	60-140	7	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	92	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513359

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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513359

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513359001	**14226_HC_RD_20201222**	MADEPV	1599428	MADEP VPH	1599428
92513359001	**14226_HC_RD_20201222**	EPA 3010A	590382	EPA 6010D	590389
92513359001	**14226_HC_RD_20201222**	SM 6200B	589048		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92513359

92513359

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: _____

** 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: UOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
14226_HC_RD_20201222	DW	G	12-22-20	0940				8	X	X	X	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: 232518AV	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:
92513359

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 #: 2561309

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 12T064
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature) Naomi Fretz / Apex	Date/Time: 12.22.20 1320	Received by/Company: (Signature) PACE Huc	Date/Time: 12/22/20 1330
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

January 05, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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.: 92513363

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.: 92513363

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513363001	**13800_HC_RD_20201222**	MADEP VPH	ACG	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
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

Sample: 13800_HC_RD_20201222 **Lab ID: 92513363001** Collected: 12/22/20 10:20 Received: 12/22/20 13:30 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	01/01/21 00:07	01/01/21 00:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/01/21 00:07	01/01/21 00:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/01/21 00:07	01/01/21 00:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/01/21 00:07	01/01/21 00:07	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.0	%	70.0-130	1	01/01/21 00:07	01/01/21 00:07	615-59-8FID	
2,5-Dibromotoluene (PID)	93.6	%	70.0-130	1	01/01/21 00:07	01/01/21 00:07	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	01/03/21 13:58	01/04/21 16:22	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 13:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 13:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 13:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 13:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 13:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 13:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 13:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 13:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 13:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 13:46	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 13:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 13:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 13:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 13:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 13:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 13:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 13:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 13:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 13:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 13:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 13:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 13:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 13:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 13:46	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

Sample: 13800_HC_RD_20201222 **Lab ID: 92513363001** Collected: 12/22/20 10:20 Received: 12/22/20 13:30 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		12/23/20 13:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 13:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 13:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 13:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 13:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 13:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 13:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 13:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 13:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 13:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 13:46	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 13:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 13:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 13:46	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 13:46	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 13:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 13:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 13:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 13:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 13:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 13:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 13:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 13:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 13:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 13:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 13:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 13:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 13:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		12/23/20 13:46	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/23/20 13:46	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/23/20 13:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

QC Batch: 1599428
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513363001

METHOD BLANK: R3609088-3 Matrix: Water
Associated Lab Samples: 92513363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/31/20 14:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/31/20 14:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/31/20 14:12	
Total VPH	ug/L	ND	100	12/31/20 14:12	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	12/31/20 14:12	
2,5-Dibromotoluene (PID)	%	87.3	70.0-130	12/31/20 14:12	

LABORATORY CONTROL SAMPLE & LCSD: R3609088-1 R3609088-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1250	103	104	70.0-130	0.803	25	
Aliphatic (C09-C12)	ug/L	1400	1610	1600	115	114	70.0-130	0.623	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	238	236	119	118	70.0-130	0.844	25	
Total VPH	ug/L	2800	3090	3090	110	110	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				95.9	91.5	70.0-130			
2,5-Dibromotoluene (PID)	%				93.8	91.1	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

QC Batch: 590382
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513363001

METHOD BLANK: 3117388 Matrix: Water
Associated Lab Samples: 92513363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/04/21 15:22	

LABORATORY CONTROL SAMPLE: 3117389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3117390 3117391

Parameter	Units	92513326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	489	492	98	98	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

QC Batch: 589048
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513363001

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
2-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
4-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
Benzene	ug/L	ND	0.50	12/23/20 11:07	
Bromobenzene	ug/L	ND	0.50	12/23/20 11:07	
Bromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromodichloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromoform	ug/L	ND	0.50	12/23/20 11:07	
Bromomethane	ug/L	ND	5.0	12/23/20 11:07	
Carbon tetrachloride	ug/L	ND	0.50	12/23/20 11:07	
Chlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
Chloroethane	ug/L	ND	1.0	12/23/20 11:07	
Chloroform	ug/L	ND	0.50	12/23/20 11:07	
Chloromethane	ug/L	ND	1.0	12/23/20 11:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Dibromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Dibromomethane	ug/L	ND	0.50	12/23/20 11:07	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/20 11:07	
Diisopropyl ether	ug/L	ND	0.50	12/23/20 11:07	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513363001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/23/20 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/20 11:07	
m&p-Xylene	ug/L	ND	1.0	12/23/20 11:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/20 11:07	
Methylene Chloride	ug/L	ND	2.0	12/23/20 11:07	
n-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
n-Propylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Naphthalene	ug/L	ND	2.0	12/23/20 11:07	
o-Xylene	ug/L	ND	0.50	12/23/20 11:07	
sec-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Styrene	ug/L	ND	0.50	12/23/20 11:07	
tert-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Tetrachloroethene	ug/L	ND	0.50	12/23/20 11:07	
Toluene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Trichloroethene	ug/L	ND	0.50	12/23/20 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/20 11:07	
Vinyl chloride	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/23/20 11:07	
4-Bromofluorobenzene (S)	%	97	70-130	12/23/20 11:07	
Toluene-d8 (S)	%	98	70-130	12/23/20 11:07	

LABORATORY CONTROL SAMPLE: 3111836

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	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	44.4	89	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.7	121	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	61.2	122	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	62.6	125	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	60-140	
1,2-Dichlorobenzene	ug/L	50	59.7	119	60-140	
1,2-Dichloroethane	ug/L	50	40.1	80	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	59.7	119	60-140	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

LABORATORY CONTROL SAMPLE: 3111836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	60.1	120	60-140	
1,3-Dichloropropane	ug/L	50	56.1	112	60-140	
1,4-Dichlorobenzene	ug/L	50	60.0	120	60-140	
2,2-Dichloropropane	ug/L	50	45.2	90	60-140	
2-Chlorotoluene	ug/L	50	59.0	118	60-140	
4-Chlorotoluene	ug/L	50	57.8	116	60-140	
Benzene	ug/L	50	45.1	90	60-140	
Bromobenzene	ug/L	50	58.6	117	60-140	
Bromochloromethane	ug/L	50	45.3	91	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	61.5	123	60-140	
Bromomethane	ug/L	50	37.9	76	60-140	
Carbon tetrachloride	ug/L	50	46.3	93	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	35.9	72	60-140	
Chloroform	ug/L	50	41.7	83	60-140	
Chloromethane	ug/L	50	36.3	73	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Dibromochloromethane	ug/L	50	62.5	125	60-140	
Dibromomethane	ug/L	50	46.1	92	60-140	
Dichlorodifluoromethane	ug/L	50	41.4	83	60-140	
Diisopropyl ether	ug/L	50	42.3	85	60-140	
Ethylbenzene	ug/L	50	53.1	106	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	43.4	87	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	61.8	124	60-140	
n-Propylbenzene	ug/L	50	57.9	116	60-140	
Naphthalene	ug/L	50	62.2	124	60-140	
o-Xylene	ug/L	50	54.0	108	60-140	
sec-Butylbenzene	ug/L	50	60.2	120	60-140	
Styrene	ug/L	50	54.7	109	60-140	
tert-Butylbenzene	ug/L	50	49.2	98	60-140	
Tetrachloroethene	ug/L	50	53.2	106	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.1	80	60-140	
Vinyl chloride	ug/L	50	38.5	77	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	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.: 92513363

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 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	200	200	235	253	117	126	60-140	7	
1,1,1-Trichloroethane	ug/L	ND	200	200	189	212	95	106	60-140	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	228	242	114	121	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	200	200	193	202	97	101	60-140	4	
1,1-Dichloroethane	ug/L	ND	200	200	190	206	95	103	60-140	8	
1,1-Dichloroethene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,1-Dichloropropene	ug/L	ND	200	200	196	214	98	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	238	268	119	134	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	249	114	124	60-140	9	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	250	273	125	137	60-140	9	
1,2,4-Trimethylbenzene	ug/L	88.9	200	200	362	386	136	149	60-140	6	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	243	271	121	136	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	234	248	117	124	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	257	289	128	144	60-140	12	M1
1,2-Dichloroethane	ug/L	ND	200	200	172	186	86	93	60-140	8	
1,2-Dichloropropane	ug/L	ND	200	200	211	216	105	108	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	281	310	140	155	60-140	10	M1
1,3-Dichlorobenzene	ug/L	ND	200	200	264	285	132	143	60-140	8	M1
1,3-Dichloropropane	ug/L	ND	200	200	239	260	119	130	60-140	8	
1,4-Dichlorobenzene	ug/L	ND	200	200	252	280	126	140	60-140	10	
2,2-Dichloropropane	ug/L	ND	200	200	177	194	88	97	60-140	9	
2-Chlorotoluene	ug/L	ND	200	200	266	287	133	143	60-140	8	M1
4-Chlorotoluene	ug/L	ND	200	200	255	283	127	142	60-140	11	M1
Benzene	ug/L	332	200	200	555	557	112	112	60-140	0	
Bromobenzene	ug/L	ND	200	200	253	289	127	144	60-140	13	M1
Bromochloromethane	ug/L	ND	200	200	193	214	96	107	60-140	10	
Bromodichloromethane	ug/L	ND	200	200	195	205	98	103	60-140	5	
Bromoform	ug/L	ND	200	200	243	251	122	125	60-140	3	
Bromomethane	ug/L	ND	200	200	167	172	83	86	60-140	3	
Carbon tetrachloride	ug/L	ND	200	200	206	217	103	109	60-140	6	
Chlorobenzene	ug/L	ND	200	200	228	244	114	122	60-140	7	
Chloroethane	ug/L	ND	200	200	180	196	90	98	60-140	9	
Chloroform	ug/L	ND	200	200	180	196	90	98	60-140	8	
Chloromethane	ug/L	ND	200	200	161	172	81	86	60-140	7	
cis-1,2-Dichloroethene	ug/L	ND	200	200	183	198	91	99	60-140	8	
cis-1,3-Dichloropropene	ug/L	ND	200	200	206	220	103	110	60-140	7	
Dibromochloromethane	ug/L	ND	200	200	237	257	119	129	60-140	8	
Dibromomethane	ug/L	ND	200	200	204	217	102	109	60-140	6	
Dichlorodifluoromethane	ug/L	ND	200	200	173	189	87	95	60-140	9	
Diisopropyl ether	ug/L	ND	200	200	183	200	92	100	60-140	8	
Ethylbenzene	ug/L	91.8	200	200	327	344	118	126	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	220	267	110	133	60-140	19	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	240	259	118	127	60-140	8	
m&p-Xylene	ug/L	324	400	400	773	815	112	123	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	200	200	186	197	93	98	60-140	6	
Methylene Chloride	ug/L	ND	200	200	180	187	90	93	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.: 92513363

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	265	291	132	145	60-140	9	M1
n-Propylbenzene	ug/L	ND	200	200	274	293	137	146	60-140	7	M1
Naphthalene	ug/L	21.4	200	200	274	300	126	139	60-140	9	
o-Xylene	ug/L	168	200	200	402	414	117	123	60-140	3	
sec-Butylbenzene	ug/L	ND	200	200	263	290	132	145	60-140	10	M1
Styrene	ug/L	ND	200	200	234	246	117	123	60-140	5	
tert-Butylbenzene	ug/L	ND	200	200	224	248	112	124	60-140	10	
Tetrachloroethene	ug/L	ND	200	200	236	251	118	126	60-140	6	
Toluene	ug/L	951	200	200	1160	1180	105	114	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	188	203	94	101	60-140	7	
trans-1,3-Dichloropropene	ug/L	ND	200	200	196	211	98	105	60-140	7	
Trichloroethene	ug/L	ND	200	200	209	226	104	113	60-140	8	
Trichlorofluoromethane	ug/L	ND	200	200	181	196	90	98	60-140	8	
Vinyl chloride	ug/L	ND	200	200	172	184	86	92	60-140	7	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	92	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
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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

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
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513363

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513363001	**13800_HC_RD_20201222**	MADEPV	1599428	MADEP VPH	1599428
92513363001	**13800_HC_RD_20201222**	EPA 3010A	590382	EPA 6010D	590389
92513363001	**13800_HC_RD_20201222**	SM 6200B	589048		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92513363

92513363

LAB USE ONLY

Company: Apex Companies	Billing Information:
Address: [illegible]	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
Copy To:	Site Collection Info/Address: 13800 Huntersville Concord Rd
Customer Project Name/Number: 2020-4-2448 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

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	6200 B VOCs	MADEP VPH	Lead
13800-NC_RD_20201222	OW	G	12-22-20	1020				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: 232518AV	
Sulfide Present	Y N (NA)
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

92513363
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 #: 2561313

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: 5.6 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-22-20 1330	[signature] MACE Hart	12/22/20 1330
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

January 05, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513370

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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.: 92513370

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.: 92513370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513370001	**13926B_HC_RD_20201222**	MADEP VPH	ACG	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-L1-2448 Incident
Pace Project No.: 92513370

Sample: 13926B_HC_RD_20201222 **Lab ID: 92513370001** Collected: 12/22/20 11:05 Received: 12/22/20 13:30 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	01/02/21 14:49	01/02/21 14:49		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/02/21 14:49	01/02/21 14:49		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/02/21 14:49	01/02/21 14:49	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/02/21 14:49	01/02/21 14:49	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.4	%	70.0-130	1	01/02/21 14:49	01/02/21 14:49	615-59-8FID	
2,5-Dibromotoluene (PID)	88.9	%	70.0-130	1	01/02/21 14:49	01/02/21 14:49	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	01/03/21 13:58	01/04/21 16:25	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 14:04	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 14:04	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 14:04	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 14:04	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 14:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 14:04	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 14:04	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 14:04	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 14:04	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 14:04	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 14:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 14:04	75-00-3	
Chloroform	**6.4**	ug/L	0.50	1		12/23/20 14:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 14:04	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 14:04	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 14:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 14:04	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 14:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 14:04	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 14:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 14:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 14:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 14:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 14:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 14:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 14:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 14:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 14:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 14:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 14:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 14:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 14:04	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-L1-2448 Incident
Pace Project No.: 92513370

Sample: 13926B_HC_RD_20201222 **Lab ID: 92513370001** Collected: 12/22/20 11:05 Received: 12/22/20 13:30 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		12/23/20 14:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 14:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 14:04	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 14:04	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 14:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 14:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 14:04	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 14:04	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 14:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 14:04	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 14:04	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 14:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 14:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 14:04	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 14:04	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 14:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 14:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 14:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 14:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 14:04	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 14:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 14:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 14:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 14:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 14:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 14:04	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 14:04	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 14:04	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/23/20 14:04	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/23/20 14:04	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		12/23/20 14:04	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-L1-2448 Incident
Pace Project No.: 92513370

QC Batch: 1600097
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513370001

METHOD BLANK: R3609092-2 Matrix: Water
Associated Lab Samples: 92513370001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/02/21 12:35	
Aliphatic (C09-C12)	ug/L	ND	100	01/02/21 12:35	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/02/21 12:35	
Total VPH	ug/L	ND	100	01/02/21 12:35	
2,5-Dibromotoluene (FID)	%	83.5	70.0-130	01/02/21 12:35	
2,5-Dibromotoluene (PID)	%	77.6	70.0-130	01/02/21 12:35	

LABORATORY CONTROL SAMPLE & LCSD: R3609092-1 R3609092-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1140	95.8	95.0	70.0-130	0.873	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1570	116	112	70.0-130	3.13	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	230	227	115	114	70.0-130	1.31	25	
Total VPH	ug/L	2800	3000	2940	107	105	70.0-130	2.02	25	
2,5-Dibromotoluene (FID)	%				94.4	103	70.0-130			
2,5-Dibromotoluene (PID)	%				89.8	95.1	70.0-130			

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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.: 92513370

QC Batch: 590382
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92513370001

METHOD BLANK: 3117388 Matrix: Water
Associated Lab Samples: 92513370001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/04/21 15:22	

LABORATORY CONTROL SAMPLE: 3117389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3117390 3117391

Parameter	Units	92513326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	489	492	98	98	75-125	1	

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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.: 92513370

QC Batch: 589048
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513370001

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513370001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
2-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
4-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
Benzene	ug/L	ND	0.50	12/23/20 11:07	
Bromobenzene	ug/L	ND	0.50	12/23/20 11:07	
Bromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromodichloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromoform	ug/L	ND	0.50	12/23/20 11:07	
Bromomethane	ug/L	ND	5.0	12/23/20 11:07	
Carbon tetrachloride	ug/L	ND	0.50	12/23/20 11:07	
Chlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
Chloroethane	ug/L	ND	1.0	12/23/20 11:07	
Chloroform	ug/L	ND	0.50	12/23/20 11:07	
Chloromethane	ug/L	ND	1.0	12/23/20 11:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Dibromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Dibromomethane	ug/L	ND	0.50	12/23/20 11:07	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/20 11:07	
Diisopropyl ether	ug/L	ND	0.50	12/23/20 11:07	

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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.: 92513370

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513370001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/23/20 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/20 11:07	
m&p-Xylene	ug/L	ND	1.0	12/23/20 11:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/20 11:07	
Methylene Chloride	ug/L	ND	2.0	12/23/20 11:07	
n-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
n-Propylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Naphthalene	ug/L	ND	2.0	12/23/20 11:07	
o-Xylene	ug/L	ND	0.50	12/23/20 11:07	
sec-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Styrene	ug/L	ND	0.50	12/23/20 11:07	
tert-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Tetrachloroethene	ug/L	ND	0.50	12/23/20 11:07	
Toluene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Trichloroethene	ug/L	ND	0.50	12/23/20 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/20 11:07	
Vinyl chloride	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/23/20 11:07	
4-Bromofluorobenzene (S)	%	97	70-130	12/23/20 11:07	
Toluene-d8 (S)	%	98	70-130	12/23/20 11:07	

LABORATORY CONTROL SAMPLE: 3111836

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	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	44.4	89	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.7	121	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	61.2	122	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	62.6	125	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	60-140	
1,2-Dichlorobenzene	ug/L	50	59.7	119	60-140	
1,2-Dichloroethane	ug/L	50	40.1	80	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	59.7	119	60-140	

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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.: 92513370

LABORATORY CONTROL SAMPLE: 3111836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	60.1	120	60-140	
1,3-Dichloropropane	ug/L	50	56.1	112	60-140	
1,4-Dichlorobenzene	ug/L	50	60.0	120	60-140	
2,2-Dichloropropane	ug/L	50	45.2	90	60-140	
2-Chlorotoluene	ug/L	50	59.0	118	60-140	
4-Chlorotoluene	ug/L	50	57.8	116	60-140	
Benzene	ug/L	50	45.1	90	60-140	
Bromobenzene	ug/L	50	58.6	117	60-140	
Bromochloromethane	ug/L	50	45.3	91	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	61.5	123	60-140	
Bromomethane	ug/L	50	37.9	76	60-140	
Carbon tetrachloride	ug/L	50	46.3	93	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	35.9	72	60-140	
Chloroform	ug/L	50	41.7	83	60-140	
Chloromethane	ug/L	50	36.3	73	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Dibromochloromethane	ug/L	50	62.5	125	60-140	
Dibromomethane	ug/L	50	46.1	92	60-140	
Dichlorodifluoromethane	ug/L	50	41.4	83	60-140	
Diisopropyl ether	ug/L	50	42.3	85	60-140	
Ethylbenzene	ug/L	50	53.1	106	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	43.4	87	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	61.8	124	60-140	
n-Propylbenzene	ug/L	50	57.9	116	60-140	
Naphthalene	ug/L	50	62.2	124	60-140	
o-Xylene	ug/L	50	54.0	108	60-140	
sec-Butylbenzene	ug/L	50	60.2	120	60-140	
Styrene	ug/L	50	54.7	109	60-140	
tert-Butylbenzene	ug/L	50	49.2	98	60-140	
Tetrachloroethene	ug/L	50	53.2	106	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.1	80	60-140	
Vinyl chloride	ug/L	50	38.5	77	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	70-130	

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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.: 92513370

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 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	200	200	235	253	117	126	60-140	7	
1,1,1-Trichloroethane	ug/L	ND	200	200	189	212	95	106	60-140	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	228	242	114	121	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	200	200	193	202	97	101	60-140	4	
1,1-Dichloroethane	ug/L	ND	200	200	190	206	95	103	60-140	8	
1,1-Dichloroethene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,1-Dichloropropene	ug/L	ND	200	200	196	214	98	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	238	268	119	134	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	249	114	124	60-140	9	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	250	273	125	137	60-140	9	
1,2,4-Trimethylbenzene	ug/L	88.9	200	200	362	386	136	149	60-140	6	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	243	271	121	136	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	234	248	117	124	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	257	289	128	144	60-140	12	M1
1,2-Dichloroethane	ug/L	ND	200	200	172	186	86	93	60-140	8	
1,2-Dichloropropane	ug/L	ND	200	200	211	216	105	108	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	281	310	140	155	60-140	10	M1
1,3-Dichlorobenzene	ug/L	ND	200	200	264	285	132	143	60-140	8	M1
1,3-Dichloropropane	ug/L	ND	200	200	239	260	119	130	60-140	8	
1,4-Dichlorobenzene	ug/L	ND	200	200	252	280	126	140	60-140	10	
2,2-Dichloropropane	ug/L	ND	200	200	177	194	88	97	60-140	9	
2-Chlorotoluene	ug/L	ND	200	200	266	287	133	143	60-140	8	M1
4-Chlorotoluene	ug/L	ND	200	200	255	283	127	142	60-140	11	M1
Benzene	ug/L	332	200	200	555	557	112	112	60-140	0	
Bromobenzene	ug/L	ND	200	200	253	289	127	144	60-140	13	M1
Bromochloromethane	ug/L	ND	200	200	193	214	96	107	60-140	10	
Bromodichloromethane	ug/L	ND	200	200	195	205	98	103	60-140	5	
Bromoform	ug/L	ND	200	200	243	251	122	125	60-140	3	
Bromomethane	ug/L	ND	200	200	167	172	83	86	60-140	3	
Carbon tetrachloride	ug/L	ND	200	200	206	217	103	109	60-140	6	
Chlorobenzene	ug/L	ND	200	200	228	244	114	122	60-140	7	
Chloroethane	ug/L	ND	200	200	180	196	90	98	60-140	9	
Chloroform	ug/L	ND	200	200	180	196	90	98	60-140	8	
Chloromethane	ug/L	ND	200	200	161	172	81	86	60-140	7	
cis-1,2-Dichloroethene	ug/L	ND	200	200	183	198	91	99	60-140	8	
cis-1,3-Dichloropropene	ug/L	ND	200	200	206	220	103	110	60-140	7	
Dibromochloromethane	ug/L	ND	200	200	237	257	119	129	60-140	8	
Dibromomethane	ug/L	ND	200	200	204	217	102	109	60-140	6	
Dichlorodifluoromethane	ug/L	ND	200	200	173	189	87	95	60-140	9	
Diisopropyl ether	ug/L	ND	200	200	183	200	92	100	60-140	8	
Ethylbenzene	ug/L	91.8	200	200	327	344	118	126	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	220	267	110	133	60-140	19	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	240	259	118	127	60-140	8	
m&p-Xylene	ug/L	324	400	400	773	815	112	123	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	200	200	186	197	93	98	60-140	6	
Methylene Chloride	ug/L	ND	200	200	180	187	90	93	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.: 92513370

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	265	291	132	145	60-140	9	M1
n-Propylbenzene	ug/L	ND	200	200	274	293	137	146	60-140	7	M1
Naphthalene	ug/L	21.4	200	200	274	300	126	139	60-140	9	
o-Xylene	ug/L	168	200	200	402	414	117	123	60-140	3	
sec-Butylbenzene	ug/L	ND	200	200	263	290	132	145	60-140	10	M1
Styrene	ug/L	ND	200	200	234	246	117	123	60-140	5	
tert-Butylbenzene	ug/L	ND	200	200	224	248	112	124	60-140	10	
Tetrachloroethene	ug/L	ND	200	200	236	251	118	126	60-140	6	
Toluene	ug/L	951	200	200	1160	1180	105	114	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	188	203	94	101	60-140	7	
trans-1,3-Dichloropropene	ug/L	ND	200	200	196	211	98	105	60-140	7	
Trichloroethene	ug/L	ND	200	200	209	226	104	113	60-140	8	
Trichlorofluoromethane	ug/L	ND	200	200	181	196	90	98	60-140	8	
Vinyl chloride	ug/L	ND	200	200	172	184	86	92	60-140	7	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	92	70-130		

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

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513370

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
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513370

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513370001	**13926B_HC_RD_20201222**	MADEPV	1600097	MADEP VPH	1600097
92513370001	**13926B_HC_RD_20201222**	EPA 3010A	590382	EPA 6010D	590389
92513370001	**13926B_HC_RD_20201222**	SM 6200B	589048		

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 ... r Number or

WO# : 92513370

92513370

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

** 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 6200 B	MADEP VPH	Lead	Lab Sample # / Comments
13926B-HC-PD-20201222	DW	G	12-22-20	1105				8	X	X	X	92513370 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: 232518AV	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:

Lab Sample # / Comments:

92513370 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 #: 2561312

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: 5.6 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.5 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-22-20 1330	PACE Hdl	12/22/20 1330
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

January 06, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513372

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 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.: 92513372

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.: 92513372

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513372001	**14401_HC_RD_20201222**	MADEP VPH	ACG	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-L1-2448 Incident
Pace Project No.: 92513372

Sample: 14401_HC_RD_20201222 **Lab ID: 92513372001** Collected: 12/22/20 08:35 Received: 12/22/20 13:30 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	12/31/20 22:27	12/31/20 22:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	12/31/20 22:27	12/31/20 22:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	12/31/20 22:27	12/31/20 22:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	12/31/20 22:27	12/31/20 22:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.0	%	70.0-130	1	12/31/20 22:27	12/31/20 22:27	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1	12/31/20 22:27	12/31/20 22:27	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	01/05/21 01:00	01/05/21 14:38	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/23/20 14:22	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/23/20 14:22	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/23/20 14:22	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/23/20 14:22	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/23/20 14:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/23/20 14:22	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/23/20 14:22	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/23/20 14:22	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/23/20 14:22	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/23/20 14:22	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/23/20 14:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/23/20 14:22	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/23/20 14:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/23/20 14:22	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 14:22	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/23/20 14:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/23/20 14:22	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/23/20 14:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/23/20 14:22	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/23/20 14:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 14:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 14:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/23/20 14:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/23/20 14:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/23/20 14:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/23/20 14:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/23/20 14:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 14:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/23/20 14:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 14:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/23/20 14:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/23/20 14:22	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: 2020-L1-2448 Incident
Pace Project No.: 92513372

Sample: 14401_HC_RD_20201222 **Lab ID: 92513372001** Collected: 12/22/20 08:35 Received: 12/22/20 13:30 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		12/23/20 14:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 14:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/23/20 14:22	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/23/20 14:22	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/23/20 14:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/23/20 14:22	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/23/20 14:22	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/23/20 14:22	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/23/20 14:22	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/23/20 14:22	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/23/20 14:22	103-65-1	
Styrene	ND	ug/L	0.50	1		12/23/20 14:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 14:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/23/20 14:22	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/23/20 14:22	127-18-4	
Toluene	ND	ug/L	0.50	1		12/23/20 14:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 14:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/23/20 14:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/23/20 14:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/23/20 14:22	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/23/20 14:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/23/20 14:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/23/20 14:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 14:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/23/20 14:22	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/23/20 14:22	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/23/20 14:22	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/23/20 14:22	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/23/20 14:22	17060-07-0	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/23/20 14:22	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/23/20 14:22	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.: 92513372

QC Batch: 1599428
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513372001

METHOD BLANK: R3609088-3 Matrix: Water
Associated Lab Samples: 92513372001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	12/31/20 14:12	
Aliphatic (C09-C12)	ug/L	ND	100	12/31/20 14:12	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	12/31/20 14:12	
Total VPH	ug/L	ND	100	12/31/20 14:12	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	12/31/20 14:12	
2,5-Dibromotoluene (PID)	%	87.3	70.0-130	12/31/20 14:12	

LABORATORY CONTROL SAMPLE & LCSD: R3609088-1 R3609088-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1250	103	104	70.0-130	0.803	25	
Aliphatic (C09-C12)	ug/L	1400	1610	1600	115	114	70.0-130	0.623	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	238	236	119	118	70.0-130	0.844	25	
Total VPH	ug/L	2800	3090	3090	110	110	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				95.9	91.5	70.0-130			
2,5-Dibromotoluene (PID)	%				93.8	91.1	70.0-130			

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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.: 92513372

QC Batch: 590552
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513372001

METHOD BLANK: 3118015 Matrix: Water
Associated Lab Samples: 92513372001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/05/21 14:32	

LABORATORY CONTROL SAMPLE: 3118016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	493	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118017 3118018

Parameter	Units	92513372001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	496	498	99	99	75-125	0	

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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.: 92513372

QC Batch: 589048
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513372001

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513372001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
1,1-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/23/20 11:07	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloroethane	ug/L	ND	0.50	12/23/20 11:07	
1,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
1,3-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
2,2-Dichloropropane	ug/L	ND	0.50	12/23/20 11:07	
2-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
4-Chlorotoluene	ug/L	ND	0.50	12/23/20 11:07	
Benzene	ug/L	ND	0.50	12/23/20 11:07	
Bromobenzene	ug/L	ND	0.50	12/23/20 11:07	
Bromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromodichloromethane	ug/L	ND	0.50	12/23/20 11:07	
Bromoform	ug/L	ND	0.50	12/23/20 11:07	
Bromomethane	ug/L	ND	5.0	12/23/20 11:07	
Carbon tetrachloride	ug/L	ND	0.50	12/23/20 11:07	
Chlorobenzene	ug/L	ND	0.50	12/23/20 11:07	
Chloroethane	ug/L	ND	1.0	12/23/20 11:07	
Chloroform	ug/L	ND	0.50	12/23/20 11:07	
Chloromethane	ug/L	ND	1.0	12/23/20 11:07	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Dibromochloromethane	ug/L	ND	0.50	12/23/20 11:07	
Dibromomethane	ug/L	ND	0.50	12/23/20 11:07	
Dichlorodifluoromethane	ug/L	ND	0.50	12/23/20 11:07	
Diisopropyl ether	ug/L	ND	0.50	12/23/20 11:07	

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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.: 92513372

METHOD BLANK: 3111835 Matrix: Water
Associated Lab Samples: 92513372001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/23/20 11:07	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/23/20 11:07	
m&p-Xylene	ug/L	ND	1.0	12/23/20 11:07	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/23/20 11:07	
Methylene Chloride	ug/L	ND	2.0	12/23/20 11:07	
n-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
n-Propylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Naphthalene	ug/L	ND	2.0	12/23/20 11:07	
o-Xylene	ug/L	ND	0.50	12/23/20 11:07	
sec-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Styrene	ug/L	ND	0.50	12/23/20 11:07	
tert-Butylbenzene	ug/L	ND	0.50	12/23/20 11:07	
Tetrachloroethene	ug/L	ND	0.50	12/23/20 11:07	
Toluene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/23/20 11:07	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/23/20 11:07	
Trichloroethene	ug/L	ND	0.50	12/23/20 11:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/23/20 11:07	
Vinyl chloride	ug/L	ND	1.0	12/23/20 11:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/23/20 11:07	
4-Bromofluorobenzene (S)	%	97	70-130	12/23/20 11:07	
Toluene-d8 (S)	%	98	70-130	12/23/20 11:07	

LABORATORY CONTROL SAMPLE: 3111836

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	43.3	87	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,2-Trichloroethane	ug/L	50	46.4	93	60-140	
1,1-Dichloroethane	ug/L	50	43.2	86	60-140	
1,1-Dichloroethene	ug/L	50	44.4	89	60-140	
1,1-Dichloropropene	ug/L	50	44.3	89	60-140	
1,2,3-Trichlorobenzene	ug/L	50	60.7	121	60-140	
1,2,3-Trichloropropane	ug/L	50	52.5	105	60-140	
1,2,4-Trichlorobenzene	ug/L	50	60.9	122	60-140	
1,2,4-Trimethylbenzene	ug/L	50	61.2	122	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	62.6	125	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	56.3	113	60-140	
1,2-Dichlorobenzene	ug/L	50	59.7	119	60-140	
1,2-Dichloroethane	ug/L	50	40.1	80	60-140	
1,2-Dichloropropane	ug/L	50	47.6	95	60-140	
1,3,5-Trimethylbenzene	ug/L	50	59.7	119	60-140	

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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.: 92513372

LABORATORY CONTROL SAMPLE: 3111836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	60.1	120	60-140	
1,3-Dichloropropane	ug/L	50	56.1	112	60-140	
1,4-Dichlorobenzene	ug/L	50	60.0	120	60-140	
2,2-Dichloropropane	ug/L	50	45.2	90	60-140	
2-Chlorotoluene	ug/L	50	59.0	118	60-140	
4-Chlorotoluene	ug/L	50	57.8	116	60-140	
Benzene	ug/L	50	45.1	90	60-140	
Bromobenzene	ug/L	50	58.6	117	60-140	
Bromochloromethane	ug/L	50	45.3	91	60-140	
Bromodichloromethane	ug/L	50	45.6	91	60-140	
Bromoform	ug/L	50	61.5	123	60-140	
Bromomethane	ug/L	50	37.9	76	60-140	
Carbon tetrachloride	ug/L	50	46.3	93	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	35.9	72	60-140	
Chloroform	ug/L	50	41.7	83	60-140	
Chloromethane	ug/L	50	36.3	73	60-140	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	60-140	
Dibromochloromethane	ug/L	50	62.5	125	60-140	
Dibromomethane	ug/L	50	46.1	92	60-140	
Dichlorodifluoromethane	ug/L	50	41.4	83	60-140	
Diisopropyl ether	ug/L	50	42.3	85	60-140	
Ethylbenzene	ug/L	50	53.1	106	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.7	111	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	43.4	87	60-140	
Methylene Chloride	ug/L	50	40.4	81	60-140	
n-Butylbenzene	ug/L	50	61.8	124	60-140	
n-Propylbenzene	ug/L	50	57.9	116	60-140	
Naphthalene	ug/L	50	62.2	124	60-140	
o-Xylene	ug/L	50	54.0	108	60-140	
sec-Butylbenzene	ug/L	50	60.2	120	60-140	
Styrene	ug/L	50	54.7	109	60-140	
tert-Butylbenzene	ug/L	50	49.2	98	60-140	
Tetrachloroethene	ug/L	50	53.2	106	60-140	
Toluene	ug/L	50	43.8	88	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	60-140	
Trichloroethene	ug/L	50	47.1	94	60-140	
Trichlorofluoromethane	ug/L	50	40.1	80	60-140	
Vinyl chloride	ug/L	50	38.5	77	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	70-130	

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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.: 92513372

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 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	200	200	235	253	117	126	60-140	7	
1,1,1-Trichloroethane	ug/L	ND	200	200	189	212	95	106	60-140	11	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	228	242	114	121	60-140	6	
1,1,2-Trichloroethane	ug/L	ND	200	200	193	202	97	101	60-140	4	
1,1-Dichloroethane	ug/L	ND	200	200	190	206	95	103	60-140	8	
1,1-Dichloroethene	ug/L	ND	200	200	198	212	99	106	60-140	7	
1,1-Dichloropropene	ug/L	ND	200	200	196	214	98	107	60-140	9	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	238	268	119	134	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	200	200	227	249	114	124	60-140	9	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	250	273	125	137	60-140	9	
1,2,4-Trimethylbenzene	ug/L	88.9	200	200	362	386	136	149	60-140	6	M1
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	243	271	121	136	60-140	11	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	234	248	117	124	60-140	6	
1,2-Dichlorobenzene	ug/L	ND	200	200	257	289	128	144	60-140	12	M1
1,2-Dichloroethane	ug/L	ND	200	200	172	186	86	93	60-140	8	
1,2-Dichloropropane	ug/L	ND	200	200	211	216	105	108	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	200	200	281	310	140	155	60-140	10	M1
1,3-Dichlorobenzene	ug/L	ND	200	200	264	285	132	143	60-140	8	M1
1,3-Dichloropropane	ug/L	ND	200	200	239	260	119	130	60-140	8	
1,4-Dichlorobenzene	ug/L	ND	200	200	252	280	126	140	60-140	10	
2,2-Dichloropropane	ug/L	ND	200	200	177	194	88	97	60-140	9	
2-Chlorotoluene	ug/L	ND	200	200	266	287	133	143	60-140	8	M1
4-Chlorotoluene	ug/L	ND	200	200	255	283	127	142	60-140	11	M1
Benzene	ug/L	332	200	200	555	557	112	112	60-140	0	
Bromobenzene	ug/L	ND	200	200	253	289	127	144	60-140	13	M1
Bromochloromethane	ug/L	ND	200	200	193	214	96	107	60-140	10	
Bromodichloromethane	ug/L	ND	200	200	195	205	98	103	60-140	5	
Bromoform	ug/L	ND	200	200	243	251	122	125	60-140	3	
Bromomethane	ug/L	ND	200	200	167	172	83	86	60-140	3	
Carbon tetrachloride	ug/L	ND	200	200	206	217	103	109	60-140	6	
Chlorobenzene	ug/L	ND	200	200	228	244	114	122	60-140	7	
Chloroethane	ug/L	ND	200	200	180	196	90	98	60-140	9	
Chloroform	ug/L	ND	200	200	180	196	90	98	60-140	8	
Chloromethane	ug/L	ND	200	200	161	172	81	86	60-140	7	
cis-1,2-Dichloroethene	ug/L	ND	200	200	183	198	91	99	60-140	8	
cis-1,3-Dichloropropene	ug/L	ND	200	200	206	220	103	110	60-140	7	
Dibromochloromethane	ug/L	ND	200	200	237	257	119	129	60-140	8	
Dibromomethane	ug/L	ND	200	200	204	217	102	109	60-140	6	
Dichlorodifluoromethane	ug/L	ND	200	200	173	189	87	95	60-140	9	
Diisopropyl ether	ug/L	ND	200	200	183	200	92	100	60-140	8	
Ethylbenzene	ug/L	91.8	200	200	327	344	118	126	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	220	267	110	133	60-140	19	
Isopropylbenzene (Cumene)	ug/L	ND	200	200	240	259	118	127	60-140	8	
m&p-Xylene	ug/L	324	400	400	773	815	112	123	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	200	200	186	197	93	98	60-140	6	
Methylene Chloride	ug/L	ND	200	200	180	187	90	93	60-140	4	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513372

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3111837 3111838

Parameter	Units	92513106006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	265	291	132	145	60-140	9	M1
n-Propylbenzene	ug/L	ND	200	200	274	293	137	146	60-140	7	M1
Naphthalene	ug/L	21.4	200	200	274	300	126	139	60-140	9	
o-Xylene	ug/L	168	200	200	402	414	117	123	60-140	3	
sec-Butylbenzene	ug/L	ND	200	200	263	290	132	145	60-140	10	M1
Styrene	ug/L	ND	200	200	234	246	117	123	60-140	5	
tert-Butylbenzene	ug/L	ND	200	200	224	248	112	124	60-140	10	
Tetrachloroethene	ug/L	ND	200	200	236	251	118	126	60-140	6	
Toluene	ug/L	951	200	200	1160	1180	105	114	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	200	200	188	203	94	101	60-140	7	
trans-1,3-Dichloropropene	ug/L	ND	200	200	196	211	98	105	60-140	7	
Trichloroethene	ug/L	ND	200	200	209	226	104	113	60-140	8	
Trichlorofluoromethane	ug/L	ND	200	200	181	196	90	98	60-140	8	
Vinyl chloride	ug/L	ND	200	200	172	184	86	92	60-140	7	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	92	70-130		

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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.: 92513372

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.: 92513372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513372001	**14401_HC_RD_20201222**	MADEPV	1599428	MADEP VPH	1599428
92513372001	**14401_HC_RD_20201222**	EPA 3010A	590552	EPA 6010D	590597
92513372001	**14401_HC_RD_20201222**	SM 6200B	589048		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB US ... Workorder Number or

WO# : 92513372

92513372

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: 2020-11-2448 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)

** 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 UPH	Lead	Lab Sample # / Comments
14401-MC-RD-20201222	DW	G	12-22-20	0835				8	X	X	X	92513372 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: 232518AV	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

92513372

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: (Wet) Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y (N) N/A	Lab Sample Temperature Info: Temp Blank Received: Y N (NA)
	Packing Material Used: Bubble bags	Lab Tracking #: 2561310	Therm ID#: 92T064
	Radchem sample(s) screened (<500 cpm): Y N (NA)	Samples received via: FEDEX UPS (Client) Courier Pace Courier	Cooler 1 Temp Upon Receipt: 5.6 oC
			Cooler 1 Therm Corr. Factor: -0.1 oC
			Cooler 1 Corrected Temp: 5.5 oC
			Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-22-20 1330	[signature] PACE HC	12/22/20 1330
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

January 07, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513975

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 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.: 92513975

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
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92513975

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513975001	**13926A_HC_RD_20201229**	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513975

Sample: 13926A_HC_RD_20201229 **Lab ID: 92513975001** Collected: 12/29/20 11:25 Received: 12/29/20 12:15 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	01/02/21 15:22	01/02/21 15:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/02/21 15:22	01/02/21 15:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/02/21 15:22	01/02/21 15:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/02/21 15:22	01/02/21 15:22	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.3	%	70.0-130	1	01/02/21 15:22	01/02/21 15:22	615-59-8FID	
2,5-Dibromotoluene (PID)	84.1	%	70.0-130	1	01/02/21 15:22	01/02/21 15:22	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	01/06/21 00:59	01/06/21 18:04	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 16:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 16:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 16:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 16:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 16:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 16:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 16:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 16:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 16:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 16:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 16:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 16:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 16:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 16:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 16:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 16:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 16:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 16:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 16:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 16:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:31	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513975

Sample: 13926A_HC_RD_20201229 **Lab ID: 92513975001** Collected: 12/29/20 11:25 Received: 12/29/20 12:15 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		12/29/20 16:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 16:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 16:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 16:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 16:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 16:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 16:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 16:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 16:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 16:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 16:31	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 16:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 16:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 16:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 16:31	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 16:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 16:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 16:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 16:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 16:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 16:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 16:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 16:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 16:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 16:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 16:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 16:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 16:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/29/20 16:31	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/29/20 16:31	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		12/29/20 16:31	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: 2020-L1-2448 Incident
Pace Project No.: 92513975

QC Batch: 1600097
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513975001

METHOD BLANK: R3609092-2 Matrix: Water
Associated Lab Samples: 92513975001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/02/21 12:35	
Aliphatic (C09-C12)	ug/L	ND	100	01/02/21 12:35	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/02/21 12:35	
Total VPH	ug/L	ND	100	01/02/21 12:35	
2,5-Dibromotoluene (FID)	%	83.5	70.0-130	01/02/21 12:35	
2,5-Dibromotoluene (PID)	%	77.6	70.0-130	01/02/21 12:35	

LABORATORY CONTROL SAMPLE & LCSD: R3609092-1 R3609092-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1140	95.8	95.0	70.0-130	0.873	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1570	116	112	70.0-130	3.13	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	230	227	115	114	70.0-130	1.31	25	
Total VPH	ug/L	2800	3000	2940	107	105	70.0-130	2.02	25	
2,5-Dibromotoluene (FID)	%				94.4	103	70.0-130			
2,5-Dibromotoluene (PID)	%				89.8	95.1	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.: 92513975

QC Batch: 590830
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513975001

METHOD BLANK: 3119331 Matrix: Water
Associated Lab Samples: 92513975001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/06/21 12:59	

LABORATORY CONTROL SAMPLE: 3119332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	414	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119333 3119334

Parameter	Units	92513672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	503	469	101	94	75-125	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: 2020-L1-2448 Incident
Pace Project No.: 92513975

QC Batch: 589720
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513975001

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513975001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
2,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
2-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
4-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
Benzene	ug/L	ND	0.50	12/29/20 11:29	
Bromobenzene	ug/L	ND	0.50	12/29/20 11:29	
Bromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromodichloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromoform	ug/L	ND	0.50	12/29/20 11:29	
Bromomethane	ug/L	ND	5.0	12/29/20 11:29	
Carbon tetrachloride	ug/L	ND	0.50	12/29/20 11:29	
Chlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
Chloroethane	ug/L	ND	1.0	12/29/20 11:29	
Chloroform	ug/L	ND	0.50	12/29/20 11:29	
Chloromethane	ug/L	ND	1.0	12/29/20 11:29	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Dibromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Dibromomethane	ug/L	ND	0.50	12/29/20 11:29	
Dichlorodifluoromethane	ug/L	ND	0.50	12/29/20 11:29	
Diisopropyl ether	ug/L	ND	0.50	12/29/20 11:29	

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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.: 92513975

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513975001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/29/20 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/29/20 11:29	
m&p-Xylene	ug/L	ND	1.0	12/29/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/29/20 11:29	
Methylene Chloride	ug/L	ND	2.0	12/29/20 11:29	
n-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
n-Propylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Naphthalene	ug/L	ND	2.0	12/29/20 11:29	
o-Xylene	ug/L	ND	0.50	12/29/20 11:29	
sec-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Styrene	ug/L	ND	0.50	12/29/20 11:29	
tert-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Tetrachloroethene	ug/L	ND	0.50	12/29/20 11:29	
Toluene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Trichloroethene	ug/L	ND	0.50	12/29/20 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/20 11:29	
Vinyl chloride	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/29/20 11:29	
4-Bromofluorobenzene (S)	%	101	70-130	12/29/20 11:29	
Toluene-d8 (S)	%	95	70-130	12/29/20 11:29	

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.7	115	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,2-Trichloroethane	ug/L	50	47.1	94	60-140	
1,1-Dichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethene	ug/L	50	44.0	88	60-140	
1,1-Dichloropropene	ug/L	50	44.8	90	60-140	
1,2,3-Trichlorobenzene	ug/L	50	61.7	123	60-140	
1,2,3-Trichloropropane	ug/L	50	53.5	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	62.1	124	60-140	
1,2,4-Trimethylbenzene	ug/L	50	63.8	128	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.4	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	58.1	116	60-140	
1,2-Dichlorobenzene	ug/L	50	61.3	123	60-140	
1,2-Dichloroethane	ug/L	50	40.6	81	60-140	
1,2-Dichloropropane	ug/L	50	46.9	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	62.3	125	60-140	

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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.: 92513975

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	61.6	123	60-140	
1,3-Dichloropropane	ug/L	50	57.4	115	60-140	
1,4-Dichlorobenzene	ug/L	50	61.7	123	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	61.2	122	60-140	
4-Chlorotoluene	ug/L	50	59.4	119	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	60.9	122	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	46.5	93	60-140	
Bromoform	ug/L	50	64.8	130	60-140	
Bromomethane	ug/L	50	40.5	81	60-140	
Carbon tetrachloride	ug/L	50	47.6	95	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	36.3	73	60-140	
Chloroform	ug/L	50	42.1	84	60-140	
Chloromethane	ug/L	50	35.5	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	63.3	127	60-140	
Dibromomethane	ug/L	50	47.7	95	60-140	
Dichlorodifluoromethane	ug/L	50	37.1	74	60-140	
Diisopropyl ether	ug/L	50	43.2	86	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.9	122	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	45.1	90	60-140	
Methylene Chloride	ug/L	50	39.6	79	60-140	
n-Butylbenzene	ug/L	50	63.1	126	60-140	
n-Propylbenzene	ug/L	50	60.4	121	60-140	
Naphthalene	ug/L	50	63.3	127	60-140	
o-Xylene	ug/L	50	54.4	109	60-140	
sec-Butylbenzene	ug/L	50	61.1	122	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	51.9	104	60-140	
Tetrachloroethene	ug/L	50	54.9	110	60-140	
Toluene	ug/L	50	45.0	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	48.1	96	60-140	
Trichlorofluoromethane	ug/L	50	39.3	79	60-140	
Vinyl chloride	ug/L	50	37.1	74	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			95	70-130	

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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.: 92513975

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 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	<10.6	500	500	619	600	124	120	60-140	3	
1,1,1-Trichloroethane	ug/L	<7.0	500	500	528	508	106	102	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	<4.8	500	500	565	581	113	116	60-140	3	
1,1,2-Trichloroethane	ug/L	<5.8	500	500	486	512	97	102	60-140	5	
1,1-Dichloroethane	ug/L	<6.1	500	500	491	500	98	100	60-140	2	
1,1-Dichloroethene	ug/L	<5.4	500	500	528	513	106	103	60-140	3	
1,1-Dichloropropene	ug/L	<8.7	500	500	516	513	103	103	60-140	1	
1,2,3-Trichlorobenzene	ug/L	<19.5	500	500	628	602	126	120	60-140	4	
1,2,3-Trichloropropane	ug/L	<6.8	500	500	562	552	112	110	60-140	2	
1,2,4-Trichlorobenzene	ug/L	<10.9	500	500	631	615	126	123	60-140	3	
1,2,4-Trimethylbenzene	ug/L	32.3	500	500	702	696	134	133	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<9.6	500	500	666	637	133	127	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<5.8	500	500	605	591	121	118	60-140	2	
1,2-Dichlorobenzene	ug/L	<6.0	500	500	661	664	132	133	60-140	1	
1,2-Dichloroethane	ug/L	<6.6	500	500	453	468	89	92	60-140	3	
1,2-Dichloropropane	ug/L	<4.6	500	500	514	527	103	105	60-140	2	
1,3,5-Trimethylbenzene	ug/L	<5.7	500	500	660	657	132	131	60-140	0	
1,3-Dichlorobenzene	ug/L	<6.2	500	500	661	639	132	128	60-140	3	
1,3-Dichloropropane	ug/L	<8.5	500	500	586	605	117	121	60-140	3	
1,4-Dichlorobenzene	ug/L	<6.2	500	500	642	650	128	130	60-140	1	
2,2-Dichloropropane	ug/L	<7.0	500	500	503	495	101	99	60-140	1	
2-Chlorotoluene	ug/L	<5.2	500	500	653	656	131	131	60-140	0	
4-Chlorotoluene	ug/L	<5.2	500	500	655	643	131	129	60-140	2	
Benzene	ug/L	88.5	500	500	608	615	104	105	60-140	1	
Bromobenzene	ug/L	<5.4	500	500	643	655	129	131	60-140	2	
Bromochloromethane	ug/L	<6.4	500	500	501	522	100	104	60-140	4	
Bromodichloromethane	ug/L	<4.6	500	500	496	521	99	104	60-140	5	
Bromoform	ug/L	<10.1	500	500	638	630	128	126	60-140	1	
Bromomethane	ug/L	<43.0	500	500	488	456	98	91	60-140	7	
Carbon tetrachloride	ug/L	<5.8	500	500	547	558	109	112	60-140	2	
Chlorobenzene	ug/L	<5.6	500	500	582	588	116	118	60-140	1	
Chloroethane	ug/L	<14.6	500	500	477	456	95	91	60-140	5	
Chloroform	ug/L	<8.8	500	500	477	465	95	93	60-140	3	
Chloromethane	ug/L	<10.4	500	500	423	420	85	84	60-140	1	
cis-1,2-Dichloroethene	ug/L	<5.2	500	500	479	471	96	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	<8.9	500	500	531	553	106	111	60-140	4	
Dibromochloromethane	ug/L	<10.0	500	500	638	655	128	131	60-140	3	
Dibromomethane	ug/L	<7.8	500	500	510	531	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	<7.1	500	500	474	473	95	95	60-140	0	
Diisopropyl ether	ug/L	109	500	500	586	589	95	96	60-140	0	
Ethylbenzene	ug/L	<6.0	500	500	595	586	119	117	60-140	2	
Hexachloro-1,3-butadiene	ug/L	<30.0	500	500	611	605	122	121	60-140	1	
Isopropylbenzene (Cumene)	ug/L	<6.0	500	500	600	606	120	121	60-140	1	
m&p-Xylene	ug/L	40.1	1000	1000	1210	1200	117	116	60-140	1	
Methyl-tert-butyl ether	ug/L	3610	500	500	4430	4550	164	188	60-140	3	M1
Methylene Chloride	ug/L	<37.5	500	500	441	445	88	89	60-140	1	

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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.: 92513975

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<8.8	500	500	670	656	134	131	60-140	2	
n-Propylbenzene	ug/L	<6.0	500	500	655	644	131	129	60-140	2	
Naphthalene	ug/L	21.9J	500	500	672	663	130	128	60-140	1	
o-Xylene	ug/L	65.1	500	500	663	644	120	116	60-140	3	
sec-Butylbenzene	ug/L	<6.2	500	500	679	662	136	132	60-140	2	
Styrene	ug/L	<6.4	500	500	594	593	119	119	60-140	0	
tert-Butylbenzene	ug/L	<6.2	500	500	564	558	113	112	60-140	1	
Tetrachloroethene	ug/L	<5.8	500	500	604	627	121	125	60-140	4	
Toluene	ug/L	<5.7	500	500	500	509	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	<6.4	500	500	509	500	102	100	60-140	2	
trans-1,3-Dichloropropene	ug/L	<9.8	500	500	523	534	105	107	60-140	2	
Trichloroethene	ug/L	<5.8	500	500	530	552	106	110	60-140	4	
Trichlorofluoromethane	ug/L	<8.4	500	500	495	489	99	98	60-140	1	
Vinyl chloride	ug/L	<10.2	500	500	456	456	91	91	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	95	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						92	94	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513975

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
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513975

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513975001	**13926A_HC_RD_20201229**	MADEPV	1600097	MADEP VPH	1600097
92513975001	**13926A_HC_RD_20201229**	EPA 3010A	590830	EPA 6010D	590846
92513975001	**13926A_HC_RD_20201229**	SM 6200B	589720		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92513975

92513975

LAB I · Number 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: 2020-11-2448 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 Sample # / Comments
13926A-HC-RD-20201229	DW	G	12-29-20	1125				8	X	X	X	92513975 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: b. bags

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

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

Lab Tracking #: 2561320

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

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: IR92T064

Cooler 1 Temp Upon Receipt: 5.0 oC

Cooler 1 Therm Corr. Factor: -.1 oC

Cooler 1 Corrected Temp: 4.9 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-29-20 1215	MACR HC	12/29/20 1215
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

January 07, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513978

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 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.: 92513978

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.: 92513978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513978001	**13835_AC_RD_20201229**	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

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.: 92513978

Sample: 13835_AC_RD_20201229 **Lab ID: 92513978001** Collected: 12/29/20 09:55 Received: 12/29/20 12:15 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	01/02/21 15:55	01/02/21 15:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/02/21 15:55	01/02/21 15:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/02/21 15:55	01/02/21 15:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/02/21 15:55	01/02/21 15:55	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/02/21 15:55	01/02/21 15:55	615-59-8FID	
2,5-Dibromotoluene (PID)	93.4	%	70.0-130	1	01/02/21 15:55	01/02/21 15:55	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	01/06/21 00:59	01/06/21 18:07	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 14:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 14:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 14:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 14:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 14:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 14:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 14:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 14:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 14:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 14:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 14:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 14:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 14:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 14:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 14:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 14:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 14:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 14:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 14:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 14:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 14:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 14:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 14:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 14:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 14:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 14:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 14:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 14:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 14:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 14:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 14:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 14:27	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.: 92513978

Sample: 13835_AC_RD_20201229 **Lab ID: 92513978001** Collected: 12/29/20 09:55 Received: 12/29/20 12:15 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		12/29/20 14:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 14:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 14:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 14:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 14:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 14:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 14:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 14:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 14:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 14:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 14:27	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 14:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 14:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 14:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 14:27	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 14:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 14:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 14:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 14:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 14:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 14:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 14:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 14:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 14:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 14:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 14:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 14:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 14:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/29/20 14:27	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/29/20 14:27	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		12/29/20 14:27	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.: 92513978

QC Batch: 1600097
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513978001

METHOD BLANK: R3609092-2 Matrix: Water
Associated Lab Samples: 92513978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/02/21 12:35	
Aliphatic (C09-C12)	ug/L	ND	100	01/02/21 12:35	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/02/21 12:35	
Total VPH	ug/L	ND	100	01/02/21 12:35	
2,5-Dibromotoluene (FID)	%	83.5	70.0-130	01/02/21 12:35	
2,5-Dibromotoluene (PID)	%	77.6	70.0-130	01/02/21 12:35	

LABORATORY CONTROL SAMPLE & LCSD: R3609092-1 R3609092-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1140	95.8	95.0	70.0-130	0.873	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1570	116	112	70.0-130	3.13	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	230	227	115	114	70.0-130	1.31	25	
Total VPH	ug/L	2800	3000	2940	107	105	70.0-130	2.02	25	
2,5-Dibromotoluene (FID)	%				94.4	103	70.0-130			
2,5-Dibromotoluene (PID)	%				89.8	95.1	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.: 92513978

QC Batch: 590830
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513978001

METHOD BLANK: 3119331 Matrix: Water
Associated Lab Samples: 92513978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/06/21 12:59	

LABORATORY CONTROL SAMPLE: 3119332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	414	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119333 3119334

Parameter	Units	92513672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	503	469	101	94	75-125	7	

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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.: 92513978

QC Batch: 589720
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513978001

METHOD BLANK: 3114485 Matrix: Water

Associated Lab Samples: 92513978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
2,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
2-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
4-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
Benzene	ug/L	ND	0.50	12/29/20 11:29	
Bromobenzene	ug/L	ND	0.50	12/29/20 11:29	
Bromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromodichloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromoform	ug/L	ND	0.50	12/29/20 11:29	
Bromomethane	ug/L	ND	5.0	12/29/20 11:29	
Carbon tetrachloride	ug/L	ND	0.50	12/29/20 11:29	
Chlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
Chloroethane	ug/L	ND	1.0	12/29/20 11:29	
Chloroform	ug/L	ND	0.50	12/29/20 11:29	
Chloromethane	ug/L	ND	1.0	12/29/20 11:29	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Dibromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Dibromomethane	ug/L	ND	0.50	12/29/20 11:29	
Dichlorodifluoromethane	ug/L	ND	0.50	12/29/20 11:29	
Diisopropyl ether	ug/L	ND	0.50	12/29/20 11:29	

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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.: 92513978

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/29/20 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/29/20 11:29	
m&p-Xylene	ug/L	ND	1.0	12/29/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/29/20 11:29	
Methylene Chloride	ug/L	ND	2.0	12/29/20 11:29	
n-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
n-Propylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Naphthalene	ug/L	ND	2.0	12/29/20 11:29	
o-Xylene	ug/L	ND	0.50	12/29/20 11:29	
sec-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Styrene	ug/L	ND	0.50	12/29/20 11:29	
tert-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Tetrachloroethene	ug/L	ND	0.50	12/29/20 11:29	
Toluene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Trichloroethene	ug/L	ND	0.50	12/29/20 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/20 11:29	
Vinyl chloride	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/29/20 11:29	
4-Bromofluorobenzene (S)	%	101	70-130	12/29/20 11:29	
Toluene-d8 (S)	%	95	70-130	12/29/20 11:29	

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.7	115	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,2-Trichloroethane	ug/L	50	47.1	94	60-140	
1,1-Dichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethene	ug/L	50	44.0	88	60-140	
1,1-Dichloropropene	ug/L	50	44.8	90	60-140	
1,2,3-Trichlorobenzene	ug/L	50	61.7	123	60-140	
1,2,3-Trichloropropane	ug/L	50	53.5	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	62.1	124	60-140	
1,2,4-Trimethylbenzene	ug/L	50	63.8	128	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.4	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	58.1	116	60-140	
1,2-Dichlorobenzene	ug/L	50	61.3	123	60-140	
1,2-Dichloroethane	ug/L	50	40.6	81	60-140	
1,2-Dichloropropane	ug/L	50	46.9	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	62.3	125	60-140	

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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.: 92513978

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	61.6	123	60-140	
1,3-Dichloropropane	ug/L	50	57.4	115	60-140	
1,4-Dichlorobenzene	ug/L	50	61.7	123	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	61.2	122	60-140	
4-Chlorotoluene	ug/L	50	59.4	119	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	60.9	122	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	46.5	93	60-140	
Bromoform	ug/L	50	64.8	130	60-140	
Bromomethane	ug/L	50	40.5	81	60-140	
Carbon tetrachloride	ug/L	50	47.6	95	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	36.3	73	60-140	
Chloroform	ug/L	50	42.1	84	60-140	
Chloromethane	ug/L	50	35.5	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	63.3	127	60-140	
Dibromomethane	ug/L	50	47.7	95	60-140	
Dichlorodifluoromethane	ug/L	50	37.1	74	60-140	
Diisopropyl ether	ug/L	50	43.2	86	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.9	122	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	45.1	90	60-140	
Methylene Chloride	ug/L	50	39.6	79	60-140	
n-Butylbenzene	ug/L	50	63.1	126	60-140	
n-Propylbenzene	ug/L	50	60.4	121	60-140	
Naphthalene	ug/L	50	63.3	127	60-140	
o-Xylene	ug/L	50	54.4	109	60-140	
sec-Butylbenzene	ug/L	50	61.1	122	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	51.9	104	60-140	
Tetrachloroethene	ug/L	50	54.9	110	60-140	
Toluene	ug/L	50	45.0	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	48.1	96	60-140	
Trichlorofluoromethane	ug/L	50	39.3	79	60-140	
Vinyl chloride	ug/L	50	37.1	74	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			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

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 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	<10.6	500	500	619	600	124	120	60-140	3	
1,1,1-Trichloroethane	ug/L	<7.0	500	500	528	508	106	102	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	<4.8	500	500	565	581	113	116	60-140	3	
1,1,2-Trichloroethane	ug/L	<5.8	500	500	486	512	97	102	60-140	5	
1,1-Dichloroethane	ug/L	<6.1	500	500	491	500	98	100	60-140	2	
1,1-Dichloroethene	ug/L	<5.4	500	500	528	513	106	103	60-140	3	
1,1-Dichloropropene	ug/L	<8.7	500	500	516	513	103	103	60-140	1	
1,2,3-Trichlorobenzene	ug/L	<19.5	500	500	628	602	126	120	60-140	4	
1,2,3-Trichloropropane	ug/L	<6.8	500	500	562	552	112	110	60-140	2	
1,2,4-Trichlorobenzene	ug/L	<10.9	500	500	631	615	126	123	60-140	3	
1,2,4-Trimethylbenzene	ug/L	32.3	500	500	702	696	134	133	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<9.6	500	500	666	637	133	127	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<5.8	500	500	605	591	121	118	60-140	2	
1,2-Dichlorobenzene	ug/L	<6.0	500	500	661	664	132	133	60-140	1	
1,2-Dichloroethane	ug/L	<6.6	500	500	453	468	89	92	60-140	3	
1,2-Dichloropropane	ug/L	<4.6	500	500	514	527	103	105	60-140	2	
1,3,5-Trimethylbenzene	ug/L	<5.7	500	500	660	657	132	131	60-140	0	
1,3-Dichlorobenzene	ug/L	<6.2	500	500	661	639	132	128	60-140	3	
1,3-Dichloropropane	ug/L	<8.5	500	500	586	605	117	121	60-140	3	
1,4-Dichlorobenzene	ug/L	<6.2	500	500	642	650	128	130	60-140	1	
2,2-Dichloropropane	ug/L	<7.0	500	500	503	495	101	99	60-140	1	
2-Chlorotoluene	ug/L	<5.2	500	500	653	656	131	131	60-140	0	
4-Chlorotoluene	ug/L	<5.2	500	500	655	643	131	129	60-140	2	
Benzene	ug/L	88.5	500	500	608	615	104	105	60-140	1	
Bromobenzene	ug/L	<5.4	500	500	643	655	129	131	60-140	2	
Bromochloromethane	ug/L	<6.4	500	500	501	522	100	104	60-140	4	
Bromodichloromethane	ug/L	<4.6	500	500	496	521	99	104	60-140	5	
Bromoform	ug/L	<10.1	500	500	638	630	128	126	60-140	1	
Bromomethane	ug/L	<43.0	500	500	488	456	98	91	60-140	7	
Carbon tetrachloride	ug/L	<5.8	500	500	547	558	109	112	60-140	2	
Chlorobenzene	ug/L	<5.6	500	500	582	588	116	118	60-140	1	
Chloroethane	ug/L	<14.6	500	500	477	456	95	91	60-140	5	
Chloroform	ug/L	<8.8	500	500	477	465	95	93	60-140	3	
Chloromethane	ug/L	<10.4	500	500	423	420	85	84	60-140	1	
cis-1,2-Dichloroethene	ug/L	<5.2	500	500	479	471	96	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	<8.9	500	500	531	553	106	111	60-140	4	
Dibromochloromethane	ug/L	<10.0	500	500	638	655	128	131	60-140	3	
Dibromomethane	ug/L	<7.8	500	500	510	531	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	<7.1	500	500	474	473	95	95	60-140	0	
Diisopropyl ether	ug/L	109	500	500	586	589	95	96	60-140	0	
Ethylbenzene	ug/L	<6.0	500	500	595	586	119	117	60-140	2	
Hexachloro-1,3-butadiene	ug/L	<30.0	500	500	611	605	122	121	60-140	1	
Isopropylbenzene (Cumene)	ug/L	<6.0	500	500	600	606	120	121	60-140	1	
m&p-Xylene	ug/L	40.1	1000	1000	1210	1200	117	116	60-140	1	
Methyl-tert-butyl ether	ug/L	3610	500	500	4430	4550	164	188	60-140	3	M1
Methylene Chloride	ug/L	<37.5	500	500	441	445	88	89	60-140	1	

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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.: 92513978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<8.8	500	500	670	656	134	131	60-140	2	
n-Propylbenzene	ug/L	<6.0	500	500	655	644	131	129	60-140	2	
Naphthalene	ug/L	21.9J	500	500	672	663	130	128	60-140	1	
o-Xylene	ug/L	65.1	500	500	663	644	120	116	60-140	3	
sec-Butylbenzene	ug/L	<6.2	500	500	679	662	136	132	60-140	2	
Styrene	ug/L	<6.4	500	500	594	593	119	119	60-140	0	
tert-Butylbenzene	ug/L	<6.2	500	500	564	558	113	112	60-140	1	
Tetrachloroethene	ug/L	<5.8	500	500	604	627	121	125	60-140	4	
Toluene	ug/L	<5.7	500	500	500	509	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	<6.4	500	500	509	500	102	100	60-140	2	
trans-1,3-Dichloropropene	ug/L	<9.8	500	500	523	534	105	107	60-140	2	
Trichloroethene	ug/L	<5.8	500	500	530	552	106	110	60-140	4	
Trichlorofluoromethane	ug/L	<8.4	500	500	495	489	99	98	60-140	1	
Vinyl chloride	ug/L	<10.2	500	500	456	456	91	91	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	95	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						92	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: 2020-L1-2448 Incident
Pace Project No.: 92513978

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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513978001	**13835_AC_RD_20201229**	MADEPV	1600097	MADEP VPH	1600097
92513978001	**13835_AC_RD_20201229**	EPA 3010A	590830	EPA 6010D	590846
92513978001	**13835_AC_RD_20201229**	SM 6200B	589720		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE — WO# : 92513978 — 92513978 — mber or

Company: Apex Companies
Address:
Billing Information:

Report To: Andrew Street
Email To: Andrew.Street@apexcos.com
Copy To:
Site Collection Info/Address: 13835 Ashbury 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: _____

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: VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
13835-AC-DP-20201229	DW	G	12-29-20	0955				8	X	X	X	92513978-001

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

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A
Lab Tracking #: 2561314
Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR9ZT064
Cooler 1 Temp Upon Receipt: 5.0 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.9 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-29-20 1215	[signature] PACE Hvc	12/29/20 1215
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

January 07, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 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.: 92513981

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.: 92513981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513981001	**14401_HC_RD_20201229**	MADEP VPH	JAH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

Sample: 14401_HC_RD_20201229 **Lab ID: 92513981001** Collected: 12/29/20 08:30 Received: 12/29/20 12:15 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	01/03/21 19:18	01/03/21 19:18		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/03/21 19:18	01/03/21 19:18		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/03/21 19:18	01/03/21 19:18	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/03/21 19:18	01/03/21 19:18	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.8	%	70.0-130	1	01/03/21 19:18	01/03/21 19:18	615-59-8FID	
2,5-Dibromotoluene (PID)	91.4	%	70.0-130	1	01/03/21 19:18	01/03/21 19:18	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	01/06/21 00:59	01/06/21 18:11	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 14:44	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 14:44	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 14:44	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 14:44	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 14:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 14:44	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 14:44	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 14:44	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 14:44	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 14:44	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 14:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 14:44	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 14:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 14:44	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 14:44	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 14:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 14:44	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 14:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 14:44	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 14:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 14:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 14:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 14:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 14:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 14:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 14:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 14:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 14:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 14:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 14:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 14:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 14:44	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

Sample: 14401_HC_RD_20201229 **Lab ID: 92513981001** Collected: 12/29/20 08:30 Received: 12/29/20 12:15 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		12/29/20 14:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 14:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 14:44	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 14:44	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 14:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 14:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 14:44	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 14:44	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 14:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 14:44	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 14:44	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 14:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 14:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 14:44	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 14:44	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 14:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 14:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 14:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 14:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 14:44	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 14:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 14:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 14:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 14:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 14:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 14:44	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 14:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 14:44	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/29/20 14:44	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		12/29/20 14:44	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/29/20 14:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

QC Batch: 1600276
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513981001

METHOD BLANK: R3609513-3 Matrix: Water
Associated Lab Samples: 92513981001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/03/21 10:55	
Aliphatic (C09-C12)	ug/L	ND	100	01/03/21 10:55	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/03/21 10:55	
Total VPH	ug/L	ND	100	01/03/21 10:55	
2,5-Dibromotoluene (FID)	%	95.9	70.0-130	01/03/21 10:55	
2,5-Dibromotoluene (PID)	%	87.8	70.0-130	01/03/21 10:55	

LABORATORY CONTROL SAMPLE & LCSD: R3609513-1 R3609513-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1060	1140	88.3	95.0	70.0-130	7.27	25	
Aliphatic (C09-C12)	ug/L	1400	1480	1580	106	113	70.0-130	6.54	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	220	224	110	112	70.0-130	1.80	25	
Total VPH	ug/L	2800	2760	2940	98.6	105	70.0-130	6.32	25	
2,5-Dibromotoluene (FID)	%				92.6	103	70.0-130			
2,5-Dibromotoluene (PID)	%				86.1	95.5	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

QC Batch: 590830
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92513981001

METHOD BLANK: 3119331 Matrix: Water
Associated Lab Samples: 92513981001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/06/21 12:59	

LABORATORY CONTROL SAMPLE: 3119332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	414	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119333 3119334

Parameter	Units	92513672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	503	469	101	94	75-125	7	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

QC Batch: 589720
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513981001

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513981001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
2,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
2-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
4-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
Benzene	ug/L	ND	0.50	12/29/20 11:29	
Bromobenzene	ug/L	ND	0.50	12/29/20 11:29	
Bromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromodichloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromoform	ug/L	ND	0.50	12/29/20 11:29	
Bromomethane	ug/L	ND	5.0	12/29/20 11:29	
Carbon tetrachloride	ug/L	ND	0.50	12/29/20 11:29	
Chlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
Chloroethane	ug/L	ND	1.0	12/29/20 11:29	
Chloroform	ug/L	ND	0.50	12/29/20 11:29	
Chloromethane	ug/L	ND	1.0	12/29/20 11:29	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Dibromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Dibromomethane	ug/L	ND	0.50	12/29/20 11:29	
Dichlorodifluoromethane	ug/L	ND	0.50	12/29/20 11:29	
Diisopropyl ether	ug/L	ND	0.50	12/29/20 11:29	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513981001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/29/20 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/29/20 11:29	
m&p-Xylene	ug/L	ND	1.0	12/29/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/29/20 11:29	
Methylene Chloride	ug/L	ND	2.0	12/29/20 11:29	
n-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
n-Propylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Naphthalene	ug/L	ND	2.0	12/29/20 11:29	
o-Xylene	ug/L	ND	0.50	12/29/20 11:29	
sec-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Styrene	ug/L	ND	0.50	12/29/20 11:29	
tert-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Tetrachloroethene	ug/L	ND	0.50	12/29/20 11:29	
Toluene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Trichloroethene	ug/L	ND	0.50	12/29/20 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/20 11:29	
Vinyl chloride	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/29/20 11:29	
4-Bromofluorobenzene (S)	%	101	70-130	12/29/20 11:29	
Toluene-d8 (S)	%	95	70-130	12/29/20 11:29	

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.7	115	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,2-Trichloroethane	ug/L	50	47.1	94	60-140	
1,1-Dichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethene	ug/L	50	44.0	88	60-140	
1,1-Dichloropropene	ug/L	50	44.8	90	60-140	
1,2,3-Trichlorobenzene	ug/L	50	61.7	123	60-140	
1,2,3-Trichloropropane	ug/L	50	53.5	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	62.1	124	60-140	
1,2,4-Trimethylbenzene	ug/L	50	63.8	128	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.4	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	58.1	116	60-140	
1,2-Dichlorobenzene	ug/L	50	61.3	123	60-140	
1,2-Dichloroethane	ug/L	50	40.6	81	60-140	
1,2-Dichloropropane	ug/L	50	46.9	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	62.3	125	60-140	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	61.6	123	60-140	
1,3-Dichloropropane	ug/L	50	57.4	115	60-140	
1,4-Dichlorobenzene	ug/L	50	61.7	123	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	61.2	122	60-140	
4-Chlorotoluene	ug/L	50	59.4	119	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	60.9	122	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	46.5	93	60-140	
Bromoform	ug/L	50	64.8	130	60-140	
Bromomethane	ug/L	50	40.5	81	60-140	
Carbon tetrachloride	ug/L	50	47.6	95	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	36.3	73	60-140	
Chloroform	ug/L	50	42.1	84	60-140	
Chloromethane	ug/L	50	35.5	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	63.3	127	60-140	
Dibromomethane	ug/L	50	47.7	95	60-140	
Dichlorodifluoromethane	ug/L	50	37.1	74	60-140	
Diisopropyl ether	ug/L	50	43.2	86	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.9	122	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	45.1	90	60-140	
Methylene Chloride	ug/L	50	39.6	79	60-140	
n-Butylbenzene	ug/L	50	63.1	126	60-140	
n-Propylbenzene	ug/L	50	60.4	121	60-140	
Naphthalene	ug/L	50	63.3	127	60-140	
o-Xylene	ug/L	50	54.4	109	60-140	
sec-Butylbenzene	ug/L	50	61.1	122	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	51.9	104	60-140	
Tetrachloroethene	ug/L	50	54.9	110	60-140	
Toluene	ug/L	50	45.0	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	48.1	96	60-140	
Trichlorofluoromethane	ug/L	50	39.3	79	60-140	
Vinyl chloride	ug/L	50	37.1	74	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			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

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 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	<10.6	500	500	619	600	124	120	60-140	3	
1,1,1-Trichloroethane	ug/L	<7.0	500	500	528	508	106	102	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	<4.8	500	500	565	581	113	116	60-140	3	
1,1,2-Trichloroethane	ug/L	<5.8	500	500	486	512	97	102	60-140	5	
1,1-Dichloroethane	ug/L	<6.1	500	500	491	500	98	100	60-140	2	
1,1-Dichloroethene	ug/L	<5.4	500	500	528	513	106	103	60-140	3	
1,1-Dichloropropene	ug/L	<8.7	500	500	516	513	103	103	60-140	1	
1,2,3-Trichlorobenzene	ug/L	<19.5	500	500	628	602	126	120	60-140	4	
1,2,3-Trichloropropane	ug/L	<6.8	500	500	562	552	112	110	60-140	2	
1,2,4-Trichlorobenzene	ug/L	<10.9	500	500	631	615	126	123	60-140	3	
1,2,4-Trimethylbenzene	ug/L	32.3	500	500	702	696	134	133	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<9.6	500	500	666	637	133	127	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<5.8	500	500	605	591	121	118	60-140	2	
1,2-Dichlorobenzene	ug/L	<6.0	500	500	661	664	132	133	60-140	1	
1,2-Dichloroethane	ug/L	<6.6	500	500	453	468	89	92	60-140	3	
1,2-Dichloropropane	ug/L	<4.6	500	500	514	527	103	105	60-140	2	
1,3,5-Trimethylbenzene	ug/L	<5.7	500	500	660	657	132	131	60-140	0	
1,3-Dichlorobenzene	ug/L	<6.2	500	500	661	639	132	128	60-140	3	
1,3-Dichloropropane	ug/L	<8.5	500	500	586	605	117	121	60-140	3	
1,4-Dichlorobenzene	ug/L	<6.2	500	500	642	650	128	130	60-140	1	
2,2-Dichloropropane	ug/L	<7.0	500	500	503	495	101	99	60-140	1	
2-Chlorotoluene	ug/L	<5.2	500	500	653	656	131	131	60-140	0	
4-Chlorotoluene	ug/L	<5.2	500	500	655	643	131	129	60-140	2	
Benzene	ug/L	88.5	500	500	608	615	104	105	60-140	1	
Bromobenzene	ug/L	<5.4	500	500	643	655	129	131	60-140	2	
Bromochloromethane	ug/L	<6.4	500	500	501	522	100	104	60-140	4	
Bromodichloromethane	ug/L	<4.6	500	500	496	521	99	104	60-140	5	
Bromoform	ug/L	<10.1	500	500	638	630	128	126	60-140	1	
Bromomethane	ug/L	<43.0	500	500	488	456	98	91	60-140	7	
Carbon tetrachloride	ug/L	<5.8	500	500	547	558	109	112	60-140	2	
Chlorobenzene	ug/L	<5.6	500	500	582	588	116	118	60-140	1	
Chloroethane	ug/L	<14.6	500	500	477	456	95	91	60-140	5	
Chloroform	ug/L	<8.8	500	500	477	465	95	93	60-140	3	
Chloromethane	ug/L	<10.4	500	500	423	420	85	84	60-140	1	
cis-1,2-Dichloroethene	ug/L	<5.2	500	500	479	471	96	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	<8.9	500	500	531	553	106	111	60-140	4	
Dibromochloromethane	ug/L	<10.0	500	500	638	655	128	131	60-140	3	
Dibromomethane	ug/L	<7.8	500	500	510	531	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	<7.1	500	500	474	473	95	95	60-140	0	
Diisopropyl ether	ug/L	109	500	500	586	589	95	96	60-140	0	
Ethylbenzene	ug/L	<6.0	500	500	595	586	119	117	60-140	2	
Hexachloro-1,3-butadiene	ug/L	<30.0	500	500	611	605	122	121	60-140	1	
Isopropylbenzene (Cumene)	ug/L	<6.0	500	500	600	606	120	121	60-140	1	
m&p-Xylene	ug/L	40.1	1000	1000	1210	1200	117	116	60-140	1	
Methyl-tert-butyl ether	ug/L	3610	500	500	4430	4550	164	188	60-140	3	M1
Methylene Chloride	ug/L	<37.5	500	500	441	445	88	89	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-L1-2448 Incident
Pace Project No.: 92513981

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<8.8	500	500	670	656	134	131	60-140	2	
n-Propylbenzene	ug/L	<6.0	500	500	655	644	131	129	60-140	2	
Naphthalene	ug/L	21.9J	500	500	672	663	130	128	60-140	1	
o-Xylene	ug/L	65.1	500	500	663	644	120	116	60-140	3	
sec-Butylbenzene	ug/L	<6.2	500	500	679	662	136	132	60-140	2	
Styrene	ug/L	<6.4	500	500	594	593	119	119	60-140	0	
tert-Butylbenzene	ug/L	<6.2	500	500	564	558	113	112	60-140	1	
Tetrachloroethene	ug/L	<5.8	500	500	604	627	121	125	60-140	4	
Toluene	ug/L	<5.7	500	500	500	509	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	<6.4	500	500	509	500	102	100	60-140	2	
trans-1,3-Dichloropropene	ug/L	<9.8	500	500	523	534	105	107	60-140	2	
Trichloroethene	ug/L	<5.8	500	500	530	552	106	110	60-140	4	
Trichlorofluoromethane	ug/L	<8.4	500	500	495	489	99	98	60-140	1	
Vinyl chloride	ug/L	<10.2	500	500	456	456	91	91	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	95	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						92	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
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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

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
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513981001	**14401_HC_RD_20201229**	MADEPV	1600276	MADEP VPH	1600276
92513981001	**14401_HC_RD_20201229**	EPA 3010A	590830	EPA 6010D	590846
92513981001	**14401_HC_RD_20201229**	SM 6200B	589720		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

WO#: 92513981

92513981

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: ___

LAB USE ONLY — Container Preservative Type — Lab Project Manager:

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

* 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	MADEP VPH	Lead	LAB USE ONLY: Lab Sample # / Comments:
14401.NC.RD.20201229	DW	G	12-29-20	0830				8	X	X	X	92513981 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:	

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: b. bags

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

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

Lab Tracking #: 2561324

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR92TG64
Cooler 1 Temp Upon Receipt: 5.0 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.9 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-29-20/1215	[signature] PACE HUC	12/29/20 1215

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

January 07, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513986

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 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.: 92513986

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.: 92513986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513986001	**13926B_HC_RD_20201229**	MADEP VPH	ACG	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

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.: 92513986

Sample: 13926B_HC_RD_20201229 **Lab ID: 92513986001** Collected: 12/29/20 10:55 Received: 12/29/20 12:15 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	01/02/21 16:28	01/02/21 16:28		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/02/21 16:28	01/02/21 16:28		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/02/21 16:28	01/02/21 16:28	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/02/21 16:28	01/02/21 16:28	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.9	%	70.0-130	1	01/02/21 16:28	01/02/21 16:28	615-59-8FID	
2,5-Dibromotoluene (PID)	89.0	%	70.0-130	1	01/02/21 16:28	01/02/21 16:28	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	01/06/21 00:59	01/06/21 18:14	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 16:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 16:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 16:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 16:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 16:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 16:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 16:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 16:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 16:49	75-00-3	
Chloroform	**7.5**	ug/L	0.50	1		12/29/20 16:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 16:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 16:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 16:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 16:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 16:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 16:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 16:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 16:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 16:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 16:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:49	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.: 92513986

Sample: 13926B_HC_RD_20201229 **Lab ID: 92513986001** Collected: 12/29/20 10:55 Received: 12/29/20 12:15 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		12/29/20 16:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 16:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 16:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 16:49	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 16:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 16:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 16:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 16:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 16:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 16:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 16:49	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 16:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 16:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 16:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 16:49	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 16:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 16:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 16:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 16:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 16:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 16:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 16:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 16:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 16:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 16:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 16:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 16:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 16:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/29/20 16:49	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		12/29/20 16:49	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/29/20 16:49	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.: 92513986

QC Batch: 1600097
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92513986001

METHOD BLANK: R3609092-2 Matrix: Water
Associated Lab Samples: 92513986001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/02/21 12:35	
Aliphatic (C09-C12)	ug/L	ND	100	01/02/21 12:35	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/02/21 12:35	
Total VPH	ug/L	ND	100	01/02/21 12:35	
2,5-Dibromotoluene (FID)	%	83.5	70.0-130	01/02/21 12:35	
2,5-Dibromotoluene (PID)	%	77.6	70.0-130	01/02/21 12:35	

LABORATORY CONTROL SAMPLE & LCSD: R3609092-1 R3609092-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1140	95.8	95.0	70.0-130	0.873	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1570	116	112	70.0-130	3.13	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	230	227	115	114	70.0-130	1.31	25	
Total VPH	ug/L	2800	3000	2940	107	105	70.0-130	2.02	25	
2,5-Dibromotoluene (FID)	%				94.4	103	70.0-130			
2,5-Dibromotoluene (PID)	%				89.8	95.1	70.0-130			

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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.: 92513986

QC Batch: 590830
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92513986001

METHOD BLANK: 3119331 Matrix: Water
Associated Lab Samples: 92513986001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/06/21 12:59	

LABORATORY CONTROL SAMPLE: 3119332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	414	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119333 3119334

Parameter	Units	92513672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	503	469	101	94	75-125	7	

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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.: 92513986

QC Batch: 589720
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513986001

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513986001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
2,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
2-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
4-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
Benzene	ug/L	ND	0.50	12/29/20 11:29	
Bromobenzene	ug/L	ND	0.50	12/29/20 11:29	
Bromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromodichloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromoform	ug/L	ND	0.50	12/29/20 11:29	
Bromomethane	ug/L	ND	5.0	12/29/20 11:29	
Carbon tetrachloride	ug/L	ND	0.50	12/29/20 11:29	
Chlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
Chloroethane	ug/L	ND	1.0	12/29/20 11:29	
Chloroform	ug/L	ND	0.50	12/29/20 11:29	
Chloromethane	ug/L	ND	1.0	12/29/20 11:29	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Dibromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Dibromomethane	ug/L	ND	0.50	12/29/20 11:29	
Dichlorodifluoromethane	ug/L	ND	0.50	12/29/20 11:29	
Diisopropyl ether	ug/L	ND	0.50	12/29/20 11:29	

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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.: 92513986

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513986001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/29/20 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/29/20 11:29	
m&p-Xylene	ug/L	ND	1.0	12/29/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/29/20 11:29	
Methylene Chloride	ug/L	ND	2.0	12/29/20 11:29	
n-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
n-Propylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Naphthalene	ug/L	ND	2.0	12/29/20 11:29	
o-Xylene	ug/L	ND	0.50	12/29/20 11:29	
sec-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Styrene	ug/L	ND	0.50	12/29/20 11:29	
tert-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Tetrachloroethene	ug/L	ND	0.50	12/29/20 11:29	
Toluene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Trichloroethene	ug/L	ND	0.50	12/29/20 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/20 11:29	
Vinyl chloride	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/29/20 11:29	
4-Bromofluorobenzene (S)	%	101	70-130	12/29/20 11:29	
Toluene-d8 (S)	%	95	70-130	12/29/20 11:29	

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.7	115	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,2-Trichloroethane	ug/L	50	47.1	94	60-140	
1,1-Dichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethene	ug/L	50	44.0	88	60-140	
1,1-Dichloropropene	ug/L	50	44.8	90	60-140	
1,2,3-Trichlorobenzene	ug/L	50	61.7	123	60-140	
1,2,3-Trichloropropane	ug/L	50	53.5	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	62.1	124	60-140	
1,2,4-Trimethylbenzene	ug/L	50	63.8	128	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.4	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	58.1	116	60-140	
1,2-Dichlorobenzene	ug/L	50	61.3	123	60-140	
1,2-Dichloroethane	ug/L	50	40.6	81	60-140	
1,2-Dichloropropane	ug/L	50	46.9	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	62.3	125	60-140	

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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.: 92513986

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	61.6	123	60-140	
1,3-Dichloropropane	ug/L	50	57.4	115	60-140	
1,4-Dichlorobenzene	ug/L	50	61.7	123	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	61.2	122	60-140	
4-Chlorotoluene	ug/L	50	59.4	119	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	60.9	122	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	46.5	93	60-140	
Bromoform	ug/L	50	64.8	130	60-140	
Bromomethane	ug/L	50	40.5	81	60-140	
Carbon tetrachloride	ug/L	50	47.6	95	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	36.3	73	60-140	
Chloroform	ug/L	50	42.1	84	60-140	
Chloromethane	ug/L	50	35.5	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	63.3	127	60-140	
Dibromomethane	ug/L	50	47.7	95	60-140	
Dichlorodifluoromethane	ug/L	50	37.1	74	60-140	
Diisopropyl ether	ug/L	50	43.2	86	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.9	122	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	45.1	90	60-140	
Methylene Chloride	ug/L	50	39.6	79	60-140	
n-Butylbenzene	ug/L	50	63.1	126	60-140	
n-Propylbenzene	ug/L	50	60.4	121	60-140	
Naphthalene	ug/L	50	63.3	127	60-140	
o-Xylene	ug/L	50	54.4	109	60-140	
sec-Butylbenzene	ug/L	50	61.1	122	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	51.9	104	60-140	
Tetrachloroethene	ug/L	50	54.9	110	60-140	
Toluene	ug/L	50	45.0	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	48.1	96	60-140	
Trichlorofluoromethane	ug/L	50	39.3	79	60-140	
Vinyl chloride	ug/L	50	37.1	74	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			95	70-130	

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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.: 92513986

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 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	<10.6	500	500	619	600	124	120	60-140	3	
1,1,1-Trichloroethane	ug/L	<7.0	500	500	528	508	106	102	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	<4.8	500	500	565	581	113	116	60-140	3	
1,1,2-Trichloroethane	ug/L	<5.8	500	500	486	512	97	102	60-140	5	
1,1-Dichloroethane	ug/L	<6.1	500	500	491	500	98	100	60-140	2	
1,1-Dichloroethene	ug/L	<5.4	500	500	528	513	106	103	60-140	3	
1,1-Dichloropropene	ug/L	<8.7	500	500	516	513	103	103	60-140	1	
1,2,3-Trichlorobenzene	ug/L	<19.5	500	500	628	602	126	120	60-140	4	
1,2,3-Trichloropropane	ug/L	<6.8	500	500	562	552	112	110	60-140	2	
1,2,4-Trichlorobenzene	ug/L	<10.9	500	500	631	615	126	123	60-140	3	
1,2,4-Trimethylbenzene	ug/L	32.3	500	500	702	696	134	133	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<9.6	500	500	666	637	133	127	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<5.8	500	500	605	591	121	118	60-140	2	
1,2-Dichlorobenzene	ug/L	<6.0	500	500	661	664	132	133	60-140	1	
1,2-Dichloroethane	ug/L	<6.6	500	500	453	468	89	92	60-140	3	
1,2-Dichloropropane	ug/L	<4.6	500	500	514	527	103	105	60-140	2	
1,3,5-Trimethylbenzene	ug/L	<5.7	500	500	660	657	132	131	60-140	0	
1,3-Dichlorobenzene	ug/L	<6.2	500	500	661	639	132	128	60-140	3	
1,3-Dichloropropane	ug/L	<8.5	500	500	586	605	117	121	60-140	3	
1,4-Dichlorobenzene	ug/L	<6.2	500	500	642	650	128	130	60-140	1	
2,2-Dichloropropane	ug/L	<7.0	500	500	503	495	101	99	60-140	1	
2-Chlorotoluene	ug/L	<5.2	500	500	653	656	131	131	60-140	0	
4-Chlorotoluene	ug/L	<5.2	500	500	655	643	131	129	60-140	2	
Benzene	ug/L	88.5	500	500	608	615	104	105	60-140	1	
Bromobenzene	ug/L	<5.4	500	500	643	655	129	131	60-140	2	
Bromochloromethane	ug/L	<6.4	500	500	501	522	100	104	60-140	4	
Bromodichloromethane	ug/L	<4.6	500	500	496	521	99	104	60-140	5	
Bromoform	ug/L	<10.1	500	500	638	630	128	126	60-140	1	
Bromomethane	ug/L	<43.0	500	500	488	456	98	91	60-140	7	
Carbon tetrachloride	ug/L	<5.8	500	500	547	558	109	112	60-140	2	
Chlorobenzene	ug/L	<5.6	500	500	582	588	116	118	60-140	1	
Chloroethane	ug/L	<14.6	500	500	477	456	95	91	60-140	5	
Chloroform	ug/L	<8.8	500	500	477	465	95	93	60-140	3	
Chloromethane	ug/L	<10.4	500	500	423	420	85	84	60-140	1	
cis-1,2-Dichloroethene	ug/L	<5.2	500	500	479	471	96	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	<8.9	500	500	531	553	106	111	60-140	4	
Dibromochloromethane	ug/L	<10.0	500	500	638	655	128	131	60-140	3	
Dibromomethane	ug/L	<7.8	500	500	510	531	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	<7.1	500	500	474	473	95	95	60-140	0	
Diisopropyl ether	ug/L	109	500	500	586	589	95	96	60-140	0	
Ethylbenzene	ug/L	<6.0	500	500	595	586	119	117	60-140	2	
Hexachloro-1,3-butadiene	ug/L	<30.0	500	500	611	605	122	121	60-140	1	
Isopropylbenzene (Cumene)	ug/L	<6.0	500	500	600	606	120	121	60-140	1	
m&p-Xylene	ug/L	40.1	1000	1000	1210	1200	117	116	60-140	1	
Methyl-tert-butyl ether	ug/L	3610	500	500	4430	4550	164	188	60-140	3	M1
Methylene Chloride	ug/L	<37.5	500	500	441	445	88	89	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-L1-2448 Incident
Pace Project No.: 92513986

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<8.8	500	500	670	656	134	131	60-140	2	
n-Propylbenzene	ug/L	<6.0	500	500	655	644	131	129	60-140	2	
Naphthalene	ug/L	21.9J	500	500	672	663	130	128	60-140	1	
o-Xylene	ug/L	65.1	500	500	663	644	120	116	60-140	3	
sec-Butylbenzene	ug/L	<6.2	500	500	679	662	136	132	60-140	2	
Styrene	ug/L	<6.4	500	500	594	593	119	119	60-140	0	
tert-Butylbenzene	ug/L	<6.2	500	500	564	558	113	112	60-140	1	
Tetrachloroethene	ug/L	<5.8	500	500	604	627	121	125	60-140	4	
Toluene	ug/L	<5.7	500	500	500	509	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	<6.4	500	500	509	500	102	100	60-140	2	
trans-1,3-Dichloropropene	ug/L	<9.8	500	500	523	534	105	107	60-140	2	
Trichloroethene	ug/L	<5.8	500	500	530	552	106	110	60-140	4	
Trichlorofluoromethane	ug/L	<8.4	500	500	495	489	99	98	60-140	1	
Vinyl chloride	ug/L	<10.2	500	500	456	456	91	91	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	95	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						92	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

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QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513986

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
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513986001	**13926B_HC_RD_20201229**	MADEPV	1600097	MADEP VPH	1600097
92513986001	**13926B_HC_RD_20201229**	EPA 3010A	590830	EPA 6010D	590846
92513986001	**13926B_HC_RD_20201229**	SM 6200B	589720		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92513986

92513986

LAB USE ONLY ... Number or

Company: Apex Companies

Address:

Billing Information:

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address: 13926B Huntersville Concord

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	VOCs 6200B	MADEP VPH	Lead	LAB USE ONLY: Lab Sample # / Comments: 92513986
13926B-HC-PD-20201229	DW	G	12-29-20	10:55				8	X	X	X	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:	

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: b. bags

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

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

Lab Tracking #: 2561321

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR92T064
Cooler 1 Temp Upon Receipt: 5.0 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.9 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Naomi Fretz / Apex	12-29-20 1215	[signature] PACE HVL	12/29/20 1215	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

January 07, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513987

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 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.: 92513987

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.: 92513987

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513987001	**13800_HC_RD_20201229**	MADEP VPH	JAH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

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.: 92513987

Sample: 13800_HC_RD_20201229 **Lab ID: 92513987001** Collected: 12/29/20 10:15 Received: 12/29/20 12:15 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	01/03/21 19:51	01/03/21 19:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/03/21 19:51	01/03/21 19:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/03/21 19:51	01/03/21 19:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/03/21 19:51	01/03/21 19:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.5	%	70.0-130	1	01/03/21 19:51	01/03/21 19:51	615-59-8FID	
2,5-Dibromotoluene (PID)	90.4	%	70.0-130	1	01/03/21 19:51	01/03/21 19:51	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	01/06/21 00:59	01/06/21 18:17	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 17:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 17:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 17:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 17:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 17:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 17:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 17:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 17:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 17:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 17:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 17:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 17:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 17:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 17:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 17:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 17:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 17:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 17:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 17:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 17:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 17:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 17:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 17:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 17:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 17:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 17:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 17:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 17:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 17:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 17:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 17:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 17:07	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.: 92513987

Sample: 13800_HC_RD_20201229 **Lab ID: 92513987001** Collected: 12/29/20 10:15 Received: 12/29/20 12:15 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		12/29/20 17:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 17:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 17:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 17:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 17:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 17:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 17:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 17:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 17:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 17:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 17:07	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 17:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 17:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 17:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 17:07	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 17:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 17:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 17:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 17:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 17:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 17:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 17:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 17:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 17:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 17:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 17:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 17:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 17:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/29/20 17:07	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/29/20 17:07	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		12/29/20 17:07	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.: 92513987

QC Batch: 1600276
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513987001

METHOD BLANK: R3609513-3 Matrix: Water
Associated Lab Samples: 92513987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/03/21 10:55	
Aliphatic (C09-C12)	ug/L	ND	100	01/03/21 10:55	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/03/21 10:55	
Total VPH	ug/L	ND	100	01/03/21 10:55	
2,5-Dibromotoluene (FID)	%	95.9	70.0-130	01/03/21 10:55	
2,5-Dibromotoluene (PID)	%	87.8	70.0-130	01/03/21 10:55	

LABORATORY CONTROL SAMPLE & LCSD: R3609513-1 R3609513-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1060	1140	88.3	95.0	70.0-130	7.27	25	
Aliphatic (C09-C12)	ug/L	1400	1480	1580	106	113	70.0-130	6.54	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	220	224	110	112	70.0-130	1.80	25	
Total VPH	ug/L	2800	2760	2940	98.6	105	70.0-130	6.32	25	
2,5-Dibromotoluene (FID)	%				92.6	103	70.0-130			
2,5-Dibromotoluene (PID)	%				86.1	95.5	70.0-130			

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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.: 92513987

QC Batch: 590830
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513987001

METHOD BLANK: 3119331 Matrix: Water
Associated Lab Samples: 92513987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/06/21 12:59	

LABORATORY CONTROL SAMPLE: 3119332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	414	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119333 3119334

Parameter	Units	92513672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	503	469	101	94	75-125	7	

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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.: 92513987

QC Batch: 589720
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513987001

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
2,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
2-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
4-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
Benzene	ug/L	ND	0.50	12/29/20 11:29	
Bromobenzene	ug/L	ND	0.50	12/29/20 11:29	
Bromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromodichloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromoform	ug/L	ND	0.50	12/29/20 11:29	
Bromomethane	ug/L	ND	5.0	12/29/20 11:29	
Carbon tetrachloride	ug/L	ND	0.50	12/29/20 11:29	
Chlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
Chloroethane	ug/L	ND	1.0	12/29/20 11:29	
Chloroform	ug/L	ND	0.50	12/29/20 11:29	
Chloromethane	ug/L	ND	1.0	12/29/20 11:29	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Dibromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Dibromomethane	ug/L	ND	0.50	12/29/20 11:29	
Dichlorodifluoromethane	ug/L	ND	0.50	12/29/20 11:29	
Diisopropyl ether	ug/L	ND	0.50	12/29/20 11:29	

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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.: 92513987

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513987001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/29/20 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/29/20 11:29	
m&p-Xylene	ug/L	ND	1.0	12/29/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/29/20 11:29	
Methylene Chloride	ug/L	ND	2.0	12/29/20 11:29	
n-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
n-Propylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Naphthalene	ug/L	ND	2.0	12/29/20 11:29	
o-Xylene	ug/L	ND	0.50	12/29/20 11:29	
sec-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Styrene	ug/L	ND	0.50	12/29/20 11:29	
tert-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Tetrachloroethene	ug/L	ND	0.50	12/29/20 11:29	
Toluene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Trichloroethene	ug/L	ND	0.50	12/29/20 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/20 11:29	
Vinyl chloride	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/29/20 11:29	
4-Bromofluorobenzene (S)	%	101	70-130	12/29/20 11:29	
Toluene-d8 (S)	%	95	70-130	12/29/20 11:29	

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.7	115	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,2-Trichloroethane	ug/L	50	47.1	94	60-140	
1,1-Dichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethene	ug/L	50	44.0	88	60-140	
1,1-Dichloropropene	ug/L	50	44.8	90	60-140	
1,2,3-Trichlorobenzene	ug/L	50	61.7	123	60-140	
1,2,3-Trichloropropane	ug/L	50	53.5	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	62.1	124	60-140	
1,2,4-Trimethylbenzene	ug/L	50	63.8	128	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.4	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	58.1	116	60-140	
1,2-Dichlorobenzene	ug/L	50	61.3	123	60-140	
1,2-Dichloroethane	ug/L	50	40.6	81	60-140	
1,2-Dichloropropane	ug/L	50	46.9	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	62.3	125	60-140	

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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.: 92513987

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	61.6	123	60-140	
1,3-Dichloropropane	ug/L	50	57.4	115	60-140	
1,4-Dichlorobenzene	ug/L	50	61.7	123	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	61.2	122	60-140	
4-Chlorotoluene	ug/L	50	59.4	119	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	60.9	122	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	46.5	93	60-140	
Bromoform	ug/L	50	64.8	130	60-140	
Bromomethane	ug/L	50	40.5	81	60-140	
Carbon tetrachloride	ug/L	50	47.6	95	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	36.3	73	60-140	
Chloroform	ug/L	50	42.1	84	60-140	
Chloromethane	ug/L	50	35.5	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	63.3	127	60-140	
Dibromomethane	ug/L	50	47.7	95	60-140	
Dichlorodifluoromethane	ug/L	50	37.1	74	60-140	
Diisopropyl ether	ug/L	50	43.2	86	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.9	122	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	45.1	90	60-140	
Methylene Chloride	ug/L	50	39.6	79	60-140	
n-Butylbenzene	ug/L	50	63.1	126	60-140	
n-Propylbenzene	ug/L	50	60.4	121	60-140	
Naphthalene	ug/L	50	63.3	127	60-140	
o-Xylene	ug/L	50	54.4	109	60-140	
sec-Butylbenzene	ug/L	50	61.1	122	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	51.9	104	60-140	
Tetrachloroethene	ug/L	50	54.9	110	60-140	
Toluene	ug/L	50	45.0	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	48.1	96	60-140	
Trichlorofluoromethane	ug/L	50	39.3	79	60-140	
Vinyl chloride	ug/L	50	37.1	74	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			95	70-130	

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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.: 92513987

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 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	<10.6	500	500	619	600	124	120	60-140	3	
1,1,1-Trichloroethane	ug/L	<7.0	500	500	528	508	106	102	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	<4.8	500	500	565	581	113	116	60-140	3	
1,1,2-Trichloroethane	ug/L	<5.8	500	500	486	512	97	102	60-140	5	
1,1-Dichloroethane	ug/L	<6.1	500	500	491	500	98	100	60-140	2	
1,1-Dichloroethene	ug/L	<5.4	500	500	528	513	106	103	60-140	3	
1,1-Dichloropropene	ug/L	<8.7	500	500	516	513	103	103	60-140	1	
1,2,3-Trichlorobenzene	ug/L	<19.5	500	500	628	602	126	120	60-140	4	
1,2,3-Trichloropropane	ug/L	<6.8	500	500	562	552	112	110	60-140	2	
1,2,4-Trichlorobenzene	ug/L	<10.9	500	500	631	615	126	123	60-140	3	
1,2,4-Trimethylbenzene	ug/L	32.3	500	500	702	696	134	133	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<9.6	500	500	666	637	133	127	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<5.8	500	500	605	591	121	118	60-140	2	
1,2-Dichlorobenzene	ug/L	<6.0	500	500	661	664	132	133	60-140	1	
1,2-Dichloroethane	ug/L	<6.6	500	500	453	468	89	92	60-140	3	
1,2-Dichloropropane	ug/L	<4.6	500	500	514	527	103	105	60-140	2	
1,3,5-Trimethylbenzene	ug/L	<5.7	500	500	660	657	132	131	60-140	0	
1,3-Dichlorobenzene	ug/L	<6.2	500	500	661	639	132	128	60-140	3	
1,3-Dichloropropane	ug/L	<8.5	500	500	586	605	117	121	60-140	3	
1,4-Dichlorobenzene	ug/L	<6.2	500	500	642	650	128	130	60-140	1	
2,2-Dichloropropane	ug/L	<7.0	500	500	503	495	101	99	60-140	1	
2-Chlorotoluene	ug/L	<5.2	500	500	653	656	131	131	60-140	0	
4-Chlorotoluene	ug/L	<5.2	500	500	655	643	131	129	60-140	2	
Benzene	ug/L	88.5	500	500	608	615	104	105	60-140	1	
Bromobenzene	ug/L	<5.4	500	500	643	655	129	131	60-140	2	
Bromochloromethane	ug/L	<6.4	500	500	501	522	100	104	60-140	4	
Bromodichloromethane	ug/L	<4.6	500	500	496	521	99	104	60-140	5	
Bromoform	ug/L	<10.1	500	500	638	630	128	126	60-140	1	
Bromomethane	ug/L	<43.0	500	500	488	456	98	91	60-140	7	
Carbon tetrachloride	ug/L	<5.8	500	500	547	558	109	112	60-140	2	
Chlorobenzene	ug/L	<5.6	500	500	582	588	116	118	60-140	1	
Chloroethane	ug/L	<14.6	500	500	477	456	95	91	60-140	5	
Chloroform	ug/L	<8.8	500	500	477	465	95	93	60-140	3	
Chloromethane	ug/L	<10.4	500	500	423	420	85	84	60-140	1	
cis-1,2-Dichloroethene	ug/L	<5.2	500	500	479	471	96	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	<8.9	500	500	531	553	106	111	60-140	4	
Dibromochloromethane	ug/L	<10.0	500	500	638	655	128	131	60-140	3	
Dibromomethane	ug/L	<7.8	500	500	510	531	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	<7.1	500	500	474	473	95	95	60-140	0	
Diisopropyl ether	ug/L	109	500	500	586	589	95	96	60-140	0	
Ethylbenzene	ug/L	<6.0	500	500	595	586	119	117	60-140	2	
Hexachloro-1,3-butadiene	ug/L	<30.0	500	500	611	605	122	121	60-140	1	
Isopropylbenzene (Cumene)	ug/L	<6.0	500	500	600	606	120	121	60-140	1	
m&p-Xylene	ug/L	40.1	1000	1000	1210	1200	117	116	60-140	1	
Methyl-tert-butyl ether	ug/L	3610	500	500	4430	4550	164	188	60-140	3	M1
Methylene Chloride	ug/L	<37.5	500	500	441	445	88	89	60-140	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513987

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<8.8	500	500	670	656	134	131	60-140	2	
n-Propylbenzene	ug/L	<6.0	500	500	655	644	131	129	60-140	2	
Naphthalene	ug/L	21.9J	500	500	672	663	130	128	60-140	1	
o-Xylene	ug/L	65.1	500	500	663	644	120	116	60-140	3	
sec-Butylbenzene	ug/L	<6.2	500	500	679	662	136	132	60-140	2	
Styrene	ug/L	<6.4	500	500	594	593	119	119	60-140	0	
tert-Butylbenzene	ug/L	<6.2	500	500	564	558	113	112	60-140	1	
Tetrachloroethene	ug/L	<5.8	500	500	604	627	121	125	60-140	4	
Toluene	ug/L	<5.7	500	500	500	509	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	<6.4	500	500	509	500	102	100	60-140	2	
trans-1,3-Dichloropropene	ug/L	<9.8	500	500	523	534	105	107	60-140	2	
Trichloroethene	ug/L	<5.8	500	500	530	552	106	110	60-140	4	
Trichlorofluoromethane	ug/L	<8.4	500	500	495	489	99	98	60-140	1	
Vinyl chloride	ug/L	<10.2	500	500	456	456	91	91	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	95	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						92	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: 2020-L1-2448 Incident
Pace Project No.: 92513987

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
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92513987

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513987001	**13800_HC_RD_20201229**	MADEPV	1600276	MADEP VPH	1600276
92513987001	**13800_HC_RD_20201229**	EPA 3010A	590830	EPA 6010D	590846
92513987001	**13800_HC_RD_20201229**	SM 6200B	589720		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92513987

92513987

'orkorder Number or

E ONLY

ger:

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-LI-2448 Incident	State: NC / County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #:
Collected By (print): Naomi Fretz	Purchase Order #: Quote #:
Collected By (signature): Naomi Fretz	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: _____

** 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	MADEP VPH	Lead	Lab Sample # / Comments
13800-HC-RD-20201229	DW	G	12-29-20	1015				8	X	X	X	92513987 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: b. bags

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

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

Lab Tracking #: 2561315

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

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: IR92T064

Cooler 1 Temp Upon Receipt: 5.0 oC

Cooler 1 Therm Corr. Factor: -.1 oC

Cooler 1 Corrected Temp: 4.9 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-29-20 1215	PACE HC	12/29/20 1215
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

January 07, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92513988

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 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.: 92513988

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
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92513988

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513988001	**14226_HC_RD_20201229**	MADEP VPH	JAH	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513988

Sample: 14226_HC_RD_20201229 **Lab ID: 92513988001** Collected: 12/29/20 09:20 Received: 12/29/20 12:15 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	01/03/21 20:24	01/03/21 20:24		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/03/21 20:24	01/03/21 20:24		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/03/21 20:24	01/03/21 20:24	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/03/21 20:24	01/03/21 20:24	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.4	%	70.0-130	1	01/03/21 20:24	01/03/21 20:24	615-59-8FID	
2,5-Dibromotoluene (PID)	89.0	%	70.0-130	1	01/03/21 20:24	01/03/21 20:24	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	01/06/21 00:59	01/06/21 18:20	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 15:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 15:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 15:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 15:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 15:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 15:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 15:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 15:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 15:02	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 15:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 15:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 15:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 15:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 15:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 15:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 15:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 15:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 15:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:02	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92513988

Sample: 14226_HC_RD_20201229 **Lab ID: 92513988001** Collected: 12/29/20 09:20 Received: 12/29/20 12:15 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		12/29/20 15:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 15:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 15:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 15:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 15:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 15:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 15:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 15:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 15:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 15:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 15:02	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 15:02	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 15:02	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 15:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 15:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 15:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 15:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 15:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 15:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 15:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 15:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 15:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 15:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 15:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/29/20 15:02	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/29/20 15:02	460-00-4	
Toluene-d8 (S)	94	%	70-130	1		12/29/20 15:02	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.: 92513988

QC Batch: 1600276
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92513988001

METHOD BLANK: R3609513-3 Matrix: Water
Associated Lab Samples: 92513988001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/03/21 10:55	
Aliphatic (C09-C12)	ug/L	ND	100	01/03/21 10:55	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/03/21 10:55	
Total VPH	ug/L	ND	100	01/03/21 10:55	
2,5-Dibromotoluene (FID)	%	95.9	70.0-130	01/03/21 10:55	
2,5-Dibromotoluene (PID)	%	87.8	70.0-130	01/03/21 10:55	

LABORATORY CONTROL SAMPLE & LCSD: R3609513-1 R3609513-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1060	1140	88.3	95.0	70.0-130	7.27	25	
Aliphatic (C09-C12)	ug/L	1400	1480	1580	106	113	70.0-130	6.54	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	220	224	110	112	70.0-130	1.80	25	
Total VPH	ug/L	2800	2760	2940	98.6	105	70.0-130	6.32	25	
2,5-Dibromotoluene (FID)	%				92.6	103	70.0-130			
2,5-Dibromotoluene (PID)	%				86.1	95.5	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
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513988

QC Batch: 590830
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92513988001

METHOD BLANK: 3119331 Matrix: Water
Associated Lab Samples: 92513988001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/06/21 12:59	

LABORATORY CONTROL SAMPLE: 3119332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	414	83	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119333 3119334

Parameter	Units	92513672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	503	469	101	94	75-125	7	

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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.: 92513988

QC Batch: 589720
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92513988001

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513988001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
2,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
2-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
4-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
Benzene	ug/L	ND	0.50	12/29/20 11:29	
Bromobenzene	ug/L	ND	0.50	12/29/20 11:29	
Bromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromodichloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromoform	ug/L	ND	0.50	12/29/20 11:29	
Bromomethane	ug/L	ND	5.0	12/29/20 11:29	
Carbon tetrachloride	ug/L	ND	0.50	12/29/20 11:29	
Chlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
Chloroethane	ug/L	ND	1.0	12/29/20 11:29	
Chloroform	ug/L	ND	0.50	12/29/20 11:29	
Chloromethane	ug/L	ND	1.0	12/29/20 11:29	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Dibromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Dibromomethane	ug/L	ND	0.50	12/29/20 11:29	
Dichlorodifluoromethane	ug/L	ND	0.50	12/29/20 11:29	
Diisopropyl ether	ug/L	ND	0.50	12/29/20 11:29	

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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.: 92513988

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513988001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/29/20 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/29/20 11:29	
m&p-Xylene	ug/L	ND	1.0	12/29/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/29/20 11:29	
Methylene Chloride	ug/L	ND	2.0	12/29/20 11:29	
n-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
n-Propylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Naphthalene	ug/L	ND	2.0	12/29/20 11:29	
o-Xylene	ug/L	ND	0.50	12/29/20 11:29	
sec-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Styrene	ug/L	ND	0.50	12/29/20 11:29	
tert-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Tetrachloroethene	ug/L	ND	0.50	12/29/20 11:29	
Toluene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Trichloroethene	ug/L	ND	0.50	12/29/20 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/20 11:29	
Vinyl chloride	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/29/20 11:29	
4-Bromofluorobenzene (S)	%	101	70-130	12/29/20 11:29	
Toluene-d8 (S)	%	95	70-130	12/29/20 11:29	

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.7	115	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,2-Trichloroethane	ug/L	50	47.1	94	60-140	
1,1-Dichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethene	ug/L	50	44.0	88	60-140	
1,1-Dichloropropene	ug/L	50	44.8	90	60-140	
1,2,3-Trichlorobenzene	ug/L	50	61.7	123	60-140	
1,2,3-Trichloropropane	ug/L	50	53.5	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	62.1	124	60-140	
1,2,4-Trimethylbenzene	ug/L	50	63.8	128	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.4	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	58.1	116	60-140	
1,2-Dichlorobenzene	ug/L	50	61.3	123	60-140	
1,2-Dichloroethane	ug/L	50	40.6	81	60-140	
1,2-Dichloropropane	ug/L	50	46.9	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	62.3	125	60-140	

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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.: 92513988

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	61.6	123	60-140	
1,3-Dichloropropane	ug/L	50	57.4	115	60-140	
1,4-Dichlorobenzene	ug/L	50	61.7	123	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	61.2	122	60-140	
4-Chlorotoluene	ug/L	50	59.4	119	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	60.9	122	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	46.5	93	60-140	
Bromoform	ug/L	50	64.8	130	60-140	
Bromomethane	ug/L	50	40.5	81	60-140	
Carbon tetrachloride	ug/L	50	47.6	95	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	36.3	73	60-140	
Chloroform	ug/L	50	42.1	84	60-140	
Chloromethane	ug/L	50	35.5	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	63.3	127	60-140	
Dibromomethane	ug/L	50	47.7	95	60-140	
Dichlorodifluoromethane	ug/L	50	37.1	74	60-140	
Diisopropyl ether	ug/L	50	43.2	86	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.9	122	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	45.1	90	60-140	
Methylene Chloride	ug/L	50	39.6	79	60-140	
n-Butylbenzene	ug/L	50	63.1	126	60-140	
n-Propylbenzene	ug/L	50	60.4	121	60-140	
Naphthalene	ug/L	50	63.3	127	60-140	
o-Xylene	ug/L	50	54.4	109	60-140	
sec-Butylbenzene	ug/L	50	61.1	122	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	51.9	104	60-140	
Tetrachloroethene	ug/L	50	54.9	110	60-140	
Toluene	ug/L	50	45.0	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	48.1	96	60-140	
Trichlorofluoromethane	ug/L	50	39.3	79	60-140	
Vinyl chloride	ug/L	50	37.1	74	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			95	70-130	

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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.: 92513988

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 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	<10.6	500	500	619	600	124	120	60-140	3	
1,1,1-Trichloroethane	ug/L	<7.0	500	500	528	508	106	102	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	<4.8	500	500	565	581	113	116	60-140	3	
1,1,2-Trichloroethane	ug/L	<5.8	500	500	486	512	97	102	60-140	5	
1,1-Dichloroethane	ug/L	<6.1	500	500	491	500	98	100	60-140	2	
1,1-Dichloroethene	ug/L	<5.4	500	500	528	513	106	103	60-140	3	
1,1-Dichloropropene	ug/L	<8.7	500	500	516	513	103	103	60-140	1	
1,2,3-Trichlorobenzene	ug/L	<19.5	500	500	628	602	126	120	60-140	4	
1,2,3-Trichloropropane	ug/L	<6.8	500	500	562	552	112	110	60-140	2	
1,2,4-Trichlorobenzene	ug/L	<10.9	500	500	631	615	126	123	60-140	3	
1,2,4-Trimethylbenzene	ug/L	32.3	500	500	702	696	134	133	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<9.6	500	500	666	637	133	127	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<5.8	500	500	605	591	121	118	60-140	2	
1,2-Dichlorobenzene	ug/L	<6.0	500	500	661	664	132	133	60-140	1	
1,2-Dichloroethane	ug/L	<6.6	500	500	453	468	89	92	60-140	3	
1,2-Dichloropropane	ug/L	<4.6	500	500	514	527	103	105	60-140	2	
1,3,5-Trimethylbenzene	ug/L	<5.7	500	500	660	657	132	131	60-140	0	
1,3-Dichlorobenzene	ug/L	<6.2	500	500	661	639	132	128	60-140	3	
1,3-Dichloropropane	ug/L	<8.5	500	500	586	605	117	121	60-140	3	
1,4-Dichlorobenzene	ug/L	<6.2	500	500	642	650	128	130	60-140	1	
2,2-Dichloropropane	ug/L	<7.0	500	500	503	495	101	99	60-140	1	
2-Chlorotoluene	ug/L	<5.2	500	500	653	656	131	131	60-140	0	
4-Chlorotoluene	ug/L	<5.2	500	500	655	643	131	129	60-140	2	
Benzene	ug/L	88.5	500	500	608	615	104	105	60-140	1	
Bromobenzene	ug/L	<5.4	500	500	643	655	129	131	60-140	2	
Bromochloromethane	ug/L	<6.4	500	500	501	522	100	104	60-140	4	
Bromodichloromethane	ug/L	<4.6	500	500	496	521	99	104	60-140	5	
Bromoform	ug/L	<10.1	500	500	638	630	128	126	60-140	1	
Bromomethane	ug/L	<43.0	500	500	488	456	98	91	60-140	7	
Carbon tetrachloride	ug/L	<5.8	500	500	547	558	109	112	60-140	2	
Chlorobenzene	ug/L	<5.6	500	500	582	588	116	118	60-140	1	
Chloroethane	ug/L	<14.6	500	500	477	456	95	91	60-140	5	
Chloroform	ug/L	<8.8	500	500	477	465	95	93	60-140	3	
Chloromethane	ug/L	<10.4	500	500	423	420	85	84	60-140	1	
cis-1,2-Dichloroethene	ug/L	<5.2	500	500	479	471	96	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	<8.9	500	500	531	553	106	111	60-140	4	
Dibromochloromethane	ug/L	<10.0	500	500	638	655	128	131	60-140	3	
Dibromomethane	ug/L	<7.8	500	500	510	531	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	<7.1	500	500	474	473	95	95	60-140	0	
Diisopropyl ether	ug/L	109	500	500	586	589	95	96	60-140	0	
Ethylbenzene	ug/L	<6.0	500	500	595	586	119	117	60-140	2	
Hexachloro-1,3-butadiene	ug/L	<30.0	500	500	611	605	122	121	60-140	1	
Isopropylbenzene (Cumene)	ug/L	<6.0	500	500	600	606	120	121	60-140	1	
m&p-Xylene	ug/L	40.1	1000	1000	1210	1200	117	116	60-140	1	
Methyl-tert-butyl ether	ug/L	3610	500	500	4430	4550	164	188	60-140	3	M1
Methylene Chloride	ug/L	<37.5	500	500	441	445	88	89	60-140	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92513988

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<8.8	500	500	670	656	134	131	60-140	2	
n-Propylbenzene	ug/L	<6.0	500	500	655	644	131	129	60-140	2	
Naphthalene	ug/L	21.9J	500	500	672	663	130	128	60-140	1	
o-Xylene	ug/L	65.1	500	500	663	644	120	116	60-140	3	
sec-Butylbenzene	ug/L	<6.2	500	500	679	662	136	132	60-140	2	
Styrene	ug/L	<6.4	500	500	594	593	119	119	60-140	0	
tert-Butylbenzene	ug/L	<6.2	500	500	564	558	113	112	60-140	1	
Tetrachloroethene	ug/L	<5.8	500	500	604	627	121	125	60-140	4	
Toluene	ug/L	<5.7	500	500	500	509	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	<6.4	500	500	509	500	102	100	60-140	2	
trans-1,3-Dichloropropene	ug/L	<9.8	500	500	523	534	105	107	60-140	2	
Trichloroethene	ug/L	<5.8	500	500	530	552	106	110	60-140	4	
Trichlorofluoromethane	ug/L	<8.4	500	500	495	489	99	98	60-140	1	
Vinyl chloride	ug/L	<10.2	500	500	456	456	91	91	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	95	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						92	94	70-130		

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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.: 92513988

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.: 92513988

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513988001	**14226_HC_RD_20201229**	MADEPV	1600276	MADEP VPH	1600276
92513988001	**14226_HC_RD_20201229**	EPA 3010A	590830	EPA 6010D	590846
92513988001	**14226_HC_RD_20201229**	SM 6200B	589720		

WO# : 92513988

92513988

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB US... Number or

Company: Apex Companies

Address:

Billing Information:

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address: 14226 Huntersville Concord Rd

Customer Project Name/Number: 2020-21-2418 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 Getz

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): Naomi Getz

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	VOCs 6200B	MADEP VPH	Lead							
14226-NC-RD-20201229	DW	G	12-29-20	0920				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:

92513988 001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: b. bags

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

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

Lab Tracking #: 2561322

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR9ZTO64
Cooler 1 Temp Upon Receipt: 5.0 oC
Cooler 1 Therm Corr. Factor: -1 oC
Cooler 1 Corrected Temp: 4.9 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Getz / Apex	12-29-20/1215	PACE Huc	12/29/20 1215
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

January 06, 2021

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

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92513991

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 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.: 92513991

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.: 92513991

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92513991001	**DUP-1**	MADEP VPH	JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92513991002	**FB-1**	MADEP VPH	JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92513991003	**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 Incident
Pace Project No.: 92513991

Sample: DUP-1 **Lab ID: 92513991001** Collected: 12/29/20 00:00 Received: 12/29/20 12:15 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	01/03/21 20:58	01/03/21 20:58		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/03/21 20:58	01/03/21 20:58		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/03/21 20:58	01/03/21 20:58	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/03/21 20:58	01/03/21 20:58	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	106	%	70.0-130	1	01/03/21 20:58	01/03/21 20:58	615-59-8FID	
2,5-Dibromotoluene (PID)	96.7	%	70.0-130	1	01/03/21 20:58	01/03/21 20:58	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	01/05/21 01:00	01/05/21 15:41	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 15:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 15:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 15:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 15:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 15:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 15:20	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 15:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 15:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 15:20	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 15:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 15:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 15:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 15:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 15:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 15:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 15:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 15:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 15:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 15:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 15:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:20	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 Incident
Pace Project No.: 92513991

Sample: DUP-1 **Lab ID: 92513991001** Collected: 12/29/20 00:00 Received: 12/29/20 12:15 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		12/29/20 15:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 15:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 15:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 15:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 15:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 15:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 15:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 15:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 15:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 15:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 15:20	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 15:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 15:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 15:20	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 15:20	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 15:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 15:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 15:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 15:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 15:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 15:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 15:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 15:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 15:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 15:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 15:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 15:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 15:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/29/20 15:20	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		12/29/20 15:20	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		12/29/20 15:20	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 Incident
Pace Project No.: 92513991

Sample: FB-1 **Lab ID: 92513991002** Collected: 12/29/20 00:00 Received: 12/29/20 12:15 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	01/03/21 21:31	01/03/21 21:31		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/03/21 21:31	01/03/21 21:31		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/03/21 21:31	01/03/21 21:31	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/03/21 21:31	01/03/21 21:31	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	01/03/21 21:31	01/03/21 21:31	615-59-8FID	
2,5-Dibromotoluene (PID)	90.7	%	70.0-130	1	01/03/21 21:31	01/03/21 21:31	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	01/05/21 01:00	01/05/21 15:45	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		12/29/20 15:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 15:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 15:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 15:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 15:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 15:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 15:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 15:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 15:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 15:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 15:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 15:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 15:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 15:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 15:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 15:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 15:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 15:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 15:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 15:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 15:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 15:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 15:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 15:55	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 Incident
Pace Project No.: 92513991

Sample: FB-1 **Lab ID: 92513991002** Collected: 12/29/20 00:00 Received: 12/29/20 12:15 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		12/29/20 15:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 15:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 15:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 15:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 15:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 15:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 15:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 15:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 15:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 15:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 15:55	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 15:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 15:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 15:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		12/29/20 15:55	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 15:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 15:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 15:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 15:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 15:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 15:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 15:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 15:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 15:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 15:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 15:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 15:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 15:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/29/20 15:55	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/29/20 15:55	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/29/20 15:55	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: 2020-LI-2448 Incident
Pace Project No.: 92513991

Sample: Trip Blank **Lab ID: 92513991003** Collected: 12/29/20 00:00 Received: 12/29/20 12:15 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		12/29/20 16:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		12/29/20 16:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		12/29/20 16:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		12/29/20 16:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		12/29/20 16:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/29/20 16:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		12/29/20 16:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		12/29/20 16:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		12/29/20 16:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/29/20 16:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		12/29/20 16:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/29/20 16:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 16:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		12/29/20 16:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		12/29/20 16:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		12/29/20 16:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		12/29/20 16:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		12/29/20 16:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		12/29/20 16:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		12/29/20 16:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		12/29/20 16:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		12/29/20 16:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		12/29/20 16:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		12/29/20 16:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		12/29/20 16:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 16:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		12/29/20 16:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		12/29/20 16:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		12/29/20 16:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/29/20 16:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		12/29/20 16:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		12/29/20 16:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		12/29/20 16:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/29/20 16:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		12/29/20 16:13	103-65-1	
Styrene	ND	ug/L	0.50	1		12/29/20 16:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 16:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		12/29/20 16:13	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 Incident
Pace Project No.: 92513991

Sample: Trip Blank **Lab ID: 92513991003** Collected: 12/29/20 00:00 Received: 12/29/20 12:15 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		12/29/20 16:13	127-18-4	
Toluene	ND	ug/L	0.50	1		12/29/20 16:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 16:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		12/29/20 16:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		12/29/20 16:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		12/29/20 16:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		12/29/20 16:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/29/20 16:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		12/29/20 16:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 16:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		12/29/20 16:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		12/29/20 16:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		12/29/20 16:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		12/29/20 16:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		12/29/20 16:13	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/29/20 16:13	460-00-4	
Toluene-d8 (S)	95	%	70-130	1		12/29/20 16:13	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 Incident
Pace Project No.: 92513991

QC Batch: 1600276
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92513991001, 92513991002

METHOD BLANK: R3609513-3 Matrix: Water
Associated Lab Samples: 92513991001, 92513991002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/03/21 10:55	
Aliphatic (C09-C12)	ug/L	ND	100	01/03/21 10:55	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/03/21 10:55	
Total VPH	ug/L	ND	100	01/03/21 10:55	
2,5-Dibromotoluene (FID)	%	95.9	70.0-130	01/03/21 10:55	
2,5-Dibromotoluene (PID)	%	87.8	70.0-130	01/03/21 10:55	

LABORATORY CONTROL SAMPLE & LCSD: R3609513-1 R3609513-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1060	1140	88.3	95.0	70.0-130	7.27	25	
Aliphatic (C09-C12)	ug/L	1400	1480	1580	106	113	70.0-130	6.54	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	220	224	110	112	70.0-130	1.80	25	
Total VPH	ug/L	2800	2760	2940	98.6	105	70.0-130	6.32	25	
2,5-Dibromotoluene (FID)	%				92.6	103	70.0-130			
2,5-Dibromotoluene (PID)	%				86.1	95.5	70.0-130			

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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.: 92513991

QC Batch: 590554
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92513991001, 92513991002

METHOD BLANK: 3118022 Matrix: Water
Associated Lab Samples: 92513991001, 92513991002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/05/21 13:43	

LABORATORY CONTROL SAMPLE: 3118023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	464	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118024 3118025

Parameter	Units	92513201001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	479	475	96	95	75-125	1	

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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.: 92513991

QC Batch: 589720 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92513991001, 92513991002, 92513991003

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513991001, 92513991002, 92513991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,1-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1,2-Trichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
1,1-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,3-Trichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	12/29/20 11:29	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloroethane	ug/L	ND	0.50	12/29/20 11:29	
1,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
1,3-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
1,4-Dichlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
2,2-Dichloropropane	ug/L	ND	0.50	12/29/20 11:29	
2-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
4-Chlorotoluene	ug/L	ND	0.50	12/29/20 11:29	
Benzene	ug/L	ND	0.50	12/29/20 11:29	
Bromobenzene	ug/L	ND	0.50	12/29/20 11:29	
Bromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromodichloromethane	ug/L	ND	0.50	12/29/20 11:29	
Bromoform	ug/L	ND	0.50	12/29/20 11:29	
Bromomethane	ug/L	ND	5.0	12/29/20 11:29	
Carbon tetrachloride	ug/L	ND	0.50	12/29/20 11:29	
Chlorobenzene	ug/L	ND	0.50	12/29/20 11:29	
Chloroethane	ug/L	ND	1.0	12/29/20 11:29	
Chloroform	ug/L	ND	0.50	12/29/20 11:29	
Chloromethane	ug/L	ND	1.0	12/29/20 11:29	
cis-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
cis-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Dibromochloromethane	ug/L	ND	0.50	12/29/20 11:29	
Dibromomethane	ug/L	ND	0.50	12/29/20 11:29	
Dichlorodifluoromethane	ug/L	ND	0.50	12/29/20 11:29	
Diisopropyl ether	ug/L	ND	0.50	12/29/20 11:29	

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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.: 92513991

METHOD BLANK: 3114485 Matrix: Water
Associated Lab Samples: 92513991001, 92513991002, 92513991003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/29/20 11:29	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	12/29/20 11:29	
m&p-Xylene	ug/L	ND	1.0	12/29/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	0.50	12/29/20 11:29	
Methylene Chloride	ug/L	ND	2.0	12/29/20 11:29	
n-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
n-Propylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Naphthalene	ug/L	ND	2.0	12/29/20 11:29	
o-Xylene	ug/L	ND	0.50	12/29/20 11:29	
sec-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Styrene	ug/L	ND	0.50	12/29/20 11:29	
tert-Butylbenzene	ug/L	ND	0.50	12/29/20 11:29	
Tetrachloroethene	ug/L	ND	0.50	12/29/20 11:29	
Toluene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,2-Dichloroethene	ug/L	ND	0.50	12/29/20 11:29	
trans-1,3-Dichloropropene	ug/L	ND	0.50	12/29/20 11:29	
Trichloroethene	ug/L	ND	0.50	12/29/20 11:29	
Trichlorofluoromethane	ug/L	ND	1.0	12/29/20 11:29	
Vinyl chloride	ug/L	ND	1.0	12/29/20 11:29	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/29/20 11:29	
4-Bromofluorobenzene (S)	%	101	70-130	12/29/20 11:29	
Toluene-d8 (S)	%	95	70-130	12/29/20 11:29	

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	57.7	115	60-140	
1,1,1-Trichloroethane	ug/L	50	44.6	89	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	54.3	109	60-140	
1,1,2-Trichloroethane	ug/L	50	47.1	94	60-140	
1,1-Dichloroethane	ug/L	50	42.5	85	60-140	
1,1-Dichloroethene	ug/L	50	44.0	88	60-140	
1,1-Dichloropropene	ug/L	50	44.8	90	60-140	
1,2,3-Trichlorobenzene	ug/L	50	61.7	123	60-140	
1,2,3-Trichloropropane	ug/L	50	53.5	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	62.1	124	60-140	
1,2,4-Trimethylbenzene	ug/L	50	63.8	128	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	64.4	129	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	58.1	116	60-140	
1,2-Dichlorobenzene	ug/L	50	61.3	123	60-140	
1,2-Dichloroethane	ug/L	50	40.6	81	60-140	
1,2-Dichloropropane	ug/L	50	46.9	94	60-140	
1,3,5-Trimethylbenzene	ug/L	50	62.3	125	60-140	

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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.: 92513991

LABORATORY CONTROL SAMPLE: 3114486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	61.6	123	60-140	
1,3-Dichloropropane	ug/L	50	57.4	115	60-140	
1,4-Dichlorobenzene	ug/L	50	61.7	123	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	61.2	122	60-140	
4-Chlorotoluene	ug/L	50	59.4	119	60-140	
Benzene	ug/L	50	45.4	91	60-140	
Bromobenzene	ug/L	50	60.9	122	60-140	
Bromochloromethane	ug/L	50	46.5	93	60-140	
Bromodichloromethane	ug/L	50	46.5	93	60-140	
Bromoform	ug/L	50	64.8	130	60-140	
Bromomethane	ug/L	50	40.5	81	60-140	
Carbon tetrachloride	ug/L	50	47.6	95	60-140	
Chlorobenzene	ug/L	50	53.9	108	60-140	
Chloroethane	ug/L	50	36.3	73	60-140	
Chloroform	ug/L	50	42.1	84	60-140	
Chloromethane	ug/L	50	35.5	71	60-140	
cis-1,2-Dichloroethene	ug/L	50	42.5	85	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	60-140	
Dibromochloromethane	ug/L	50	63.3	127	60-140	
Dibromomethane	ug/L	50	47.7	95	60-140	
Dichlorodifluoromethane	ug/L	50	37.1	74	60-140	
Diisopropyl ether	ug/L	50	43.2	86	60-140	
Ethylbenzene	ug/L	50	52.4	105	60-140	
Hexachloro-1,3-butadiene	ug/L	50	60.9	122	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.6	107	60-140	
m&p-Xylene	ug/L	100	104	104	60-140	
Methyl-tert-butyl ether	ug/L	50	45.1	90	60-140	
Methylene Chloride	ug/L	50	39.6	79	60-140	
n-Butylbenzene	ug/L	50	63.1	126	60-140	
n-Propylbenzene	ug/L	50	60.4	121	60-140	
Naphthalene	ug/L	50	63.3	127	60-140	
o-Xylene	ug/L	50	54.4	109	60-140	
sec-Butylbenzene	ug/L	50	61.1	122	60-140	
Styrene	ug/L	50	53.8	108	60-140	
tert-Butylbenzene	ug/L	50	51.9	104	60-140	
Tetrachloroethene	ug/L	50	54.9	110	60-140	
Toluene	ug/L	50	45.0	90	60-140	
trans-1,2-Dichloroethene	ug/L	50	42.6	85	60-140	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	60-140	
Trichloroethene	ug/L	50	48.1	96	60-140	
Trichlorofluoromethane	ug/L	50	39.3	79	60-140	
Vinyl chloride	ug/L	50	37.1	74	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			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

QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92513991

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 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	<10.6	500	500	619	600	124	120	60-140	3	
1,1,1-Trichloroethane	ug/L	<7.0	500	500	528	508	106	102	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	<4.8	500	500	565	581	113	116	60-140	3	
1,1,2-Trichloroethane	ug/L	<5.8	500	500	486	512	97	102	60-140	5	
1,1-Dichloroethane	ug/L	<6.1	500	500	491	500	98	100	60-140	2	
1,1-Dichloroethene	ug/L	<5.4	500	500	528	513	106	103	60-140	3	
1,1-Dichloropropene	ug/L	<8.7	500	500	516	513	103	103	60-140	1	
1,2,3-Trichlorobenzene	ug/L	<19.5	500	500	628	602	126	120	60-140	4	
1,2,3-Trichloropropane	ug/L	<6.8	500	500	562	552	112	110	60-140	2	
1,2,4-Trichlorobenzene	ug/L	<10.9	500	500	631	615	126	123	60-140	3	
1,2,4-Trimethylbenzene	ug/L	32.3	500	500	702	696	134	133	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	<9.6	500	500	666	637	133	127	60-140	4	
1,2-Dibromoethane (EDB)	ug/L	<5.8	500	500	605	591	121	118	60-140	2	
1,2-Dichlorobenzene	ug/L	<6.0	500	500	661	664	132	133	60-140	1	
1,2-Dichloroethane	ug/L	<6.6	500	500	453	468	89	92	60-140	3	
1,2-Dichloropropane	ug/L	<4.6	500	500	514	527	103	105	60-140	2	
1,3,5-Trimethylbenzene	ug/L	<5.7	500	500	660	657	132	131	60-140	0	
1,3-Dichlorobenzene	ug/L	<6.2	500	500	661	639	132	128	60-140	3	
1,3-Dichloropropane	ug/L	<8.5	500	500	586	605	117	121	60-140	3	
1,4-Dichlorobenzene	ug/L	<6.2	500	500	642	650	128	130	60-140	1	
2,2-Dichloropropane	ug/L	<7.0	500	500	503	495	101	99	60-140	1	
2-Chlorotoluene	ug/L	<5.2	500	500	653	656	131	131	60-140	0	
4-Chlorotoluene	ug/L	<5.2	500	500	655	643	131	129	60-140	2	
Benzene	ug/L	88.5	500	500	608	615	104	105	60-140	1	
Bromobenzene	ug/L	<5.4	500	500	643	655	129	131	60-140	2	
Bromochloromethane	ug/L	<6.4	500	500	501	522	100	104	60-140	4	
Bromodichloromethane	ug/L	<4.6	500	500	496	521	99	104	60-140	5	
Bromoform	ug/L	<10.1	500	500	638	630	128	126	60-140	1	
Bromomethane	ug/L	<43.0	500	500	488	456	98	91	60-140	7	
Carbon tetrachloride	ug/L	<5.8	500	500	547	558	109	112	60-140	2	
Chlorobenzene	ug/L	<5.6	500	500	582	588	116	118	60-140	1	
Chloroethane	ug/L	<14.6	500	500	477	456	95	91	60-140	5	
Chloroform	ug/L	<8.8	500	500	477	465	95	93	60-140	3	
Chloromethane	ug/L	<10.4	500	500	423	420	85	84	60-140	1	
cis-1,2-Dichloroethene	ug/L	<5.2	500	500	479	471	96	94	60-140	2	
cis-1,3-Dichloropropene	ug/L	<8.9	500	500	531	553	106	111	60-140	4	
Dibromochloromethane	ug/L	<10.0	500	500	638	655	128	131	60-140	3	
Dibromomethane	ug/L	<7.8	500	500	510	531	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	<7.1	500	500	474	473	95	95	60-140	0	
Diisopropyl ether	ug/L	109	500	500	586	589	95	96	60-140	0	
Ethylbenzene	ug/L	<6.0	500	500	595	586	119	117	60-140	2	
Hexachloro-1,3-butadiene	ug/L	<30.0	500	500	611	605	122	121	60-140	1	
Isopropylbenzene (Cumene)	ug/L	<6.0	500	500	600	606	120	121	60-140	1	
m&p-Xylene	ug/L	40.1	1000	1000	1210	1200	117	116	60-140	1	
Methyl-tert-butyl ether	ug/L	3610	500	500	4430	4550	164	188	60-140	3	M1
Methylene Chloride	ug/L	<37.5	500	500	441	445	88	89	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 Incident
Pace Project No.: 92513991

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3114487 3114488

Parameter	Units	92513587012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	<8.8	500	500	670	656	134	131	60-140	2	
n-Propylbenzene	ug/L	<6.0	500	500	655	644	131	129	60-140	2	
Naphthalene	ug/L	21.9J	500	500	672	663	130	128	60-140	1	
o-Xylene	ug/L	65.1	500	500	663	644	120	116	60-140	3	
sec-Butylbenzene	ug/L	<6.2	500	500	679	662	136	132	60-140	2	
Styrene	ug/L	<6.4	500	500	594	593	119	119	60-140	0	
tert-Butylbenzene	ug/L	<6.2	500	500	564	558	113	112	60-140	1	
Tetrachloroethene	ug/L	<5.8	500	500	604	627	121	125	60-140	4	
Toluene	ug/L	<5.7	500	500	500	509	100	102	60-140	2	
trans-1,2-Dichloroethene	ug/L	<6.4	500	500	509	500	102	100	60-140	2	
trans-1,3-Dichloropropene	ug/L	<9.8	500	500	523	534	105	107	60-140	2	
Trichloroethene	ug/L	<5.8	500	500	530	552	106	110	60-140	4	
Trichlorofluoromethane	ug/L	<8.4	500	500	495	489	99	98	60-140	1	
Vinyl chloride	ug/L	<10.2	500	500	456	456	91	91	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	95	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						92	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
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QUALIFIERS

Project: 2020-LI-2448 Incident
Pace Project No.: 92513991

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
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92513991

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92513991001	**DUP-1**	MADEPV	1600276	MADEP VPH	1600276
92513991002	**FB-1**	MADEPV	1600276	MADEP VPH	1600276
92513991001	**DUP-1**	EPA 3010A	590554	EPA 6010D	590598
92513991002	**FB-1**	EPA 3010A	590554	EPA 6010D	590598
92513991001	**DUP-1**	SM 6200B	589720		
92513991002	**FB-1**	SM 6200B	589720		
92513991003	**Trip Blank**	SM 6200B	589720		

WO# : 92513991

92513991

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

rder Number or

NLY

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: County/City: NC/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
DUP-1	DW	G	12-29-20	--				8	X	X	X							001
FB-1	OT	G	↓	--				8	X	X	X							002
Trip Blank	OT	G	↓	-				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: b. bags

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

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

Lab Tracking #: 2561323

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

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: IR9ZT064

Cooler 1 Temp Upon Receipt: 5.0 oC

Cooler 1 Therm Corr. Factor: -.1 oC

Cooler 1 Corrected Temp: 4.9 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	12-29-20/1215	PACE HLC	12/29/20 1215
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

January 11, 2021

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

RE: Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Report revised 01/11/21-To update sample ID per client request.

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

Sincerely,

Sara Coble for
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-Revised Report
Pace Project No.: 92514747

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-Revised Report
Pace Project No.: 92514747

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514747001	**13800_HC_RD_20210105**	MADEP VPH	ADM	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

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

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

Sample: 13800_HC_RD_20210105 **Lab ID: 92514747001** Collected: 01/05/21 09:00 Received: 01/05/21 13:50 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	01/08/21 01:33	01/08/21 01:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 01:33	01/08/21 01:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 01:33	01/08/21 01:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 01:33	01/08/21 01:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.9	%	70.0-130	1	01/08/21 01:33	01/08/21 01:33	615-59-8FID	
2,5-Dibromotoluene (PID)	88.5	%	70.0-130	1	01/08/21 01:33	01/08/21 01:33	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	01/07/21 02:07	01/07/21 16:19	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 00:59	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 00:59	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 00:59	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 00:59	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 00:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 00:59	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:59	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:59	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:59	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 00:59	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 00:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 00:59	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 00:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 00:59	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 00:59	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 00:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 00:59	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 00:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 00:59	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 00:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 00:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 00:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 00:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:59	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

Sample: 13800_HC_RD_20210105 **Lab ID: 92514747001** Collected: 01/05/21 09:00 Received: 01/05/21 13:50 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		01/06/21 00:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 00:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 00:59	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 00:59	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 00:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 00:59	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 00:59	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 00:59	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 00:59	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 00:59	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 00:59	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 00:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 00:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 00:59	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 00:59	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 00:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 00:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 00:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 00:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 00:59	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 00:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 00:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 00:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 00:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 00:59	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 00:59	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 00:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 00:59	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/06/21 00:59	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/06/21 00:59	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/06/21 00:59	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

QC Batch: 1602050
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514747001

METHOD BLANK: R3610884-3 Matrix: Water
Associated Lab Samples: 92514747001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 23:53	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 23:53	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 23:53	
Total VPH	ug/L	ND	100	01/07/21 23:53	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/07/21 23:53	
2,5-Dibromotoluene (PID)	%	78.4	70.0-130	01/07/21 23:53	

LABORATORY CONTROL SAMPLE & LCSD: R3610884-1 R3610884-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1240	103	103	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1460	1460	104	104	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	183	185	91.5	92.5	70.0-130	1.09	25	
Total VPH	ug/L	2800	2880	2890	103	103	70.0-130	0.347	25	
2,5-Dibromotoluene (FID)	%				103	98.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.3	88.2	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514747001

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514747001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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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-Revised Report
Pace Project No.: 92514747

QC Batch: 590757
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514747001

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514747001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
Benzene	ug/L	ND	0.50	01/05/21 23:47	
Bromobenzene	ug/L	ND	0.50	01/05/21 23:47	
Bromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromoform	ug/L	ND	0.50	01/05/21 23:47	
Bromomethane	ug/L	ND	5.0	01/05/21 23:47	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 23:47	
Chlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
Chloroethane	ug/L	ND	1.0	01/05/21 23:47	
Chloroform	ug/L	ND	0.50	01/05/21 23:47	
Chloromethane	ug/L	ND	1.0	01/05/21 23:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Dibromomethane	ug/L	ND	0.50	01/05/21 23:47	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 23:47	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 23:47	

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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-Revised Report
Pace Project No.: 92514747

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514747001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 23:47	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 23:47	
m&p-Xylene	ug/L	ND	1.0	01/05/21 23:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 23:47	
Methylene Chloride	ug/L	ND	2.0	01/05/21 23:47	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Naphthalene	ug/L	ND	2.0	01/05/21 23:47	
o-Xylene	ug/L	ND	0.50	01/05/21 23:47	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Styrene	ug/L	ND	0.50	01/05/21 23:47	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 23:47	
Toluene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Trichloroethene	ug/L	ND	0.50	01/05/21 23:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 23:47	
Vinyl chloride	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 23:47	
4-Bromofluorobenzene (S)	%	100	70-130	01/05/21 23:47	
Toluene-d8 (S)	%	104	70-130	01/05/21 23:47	

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	60-140	
1,1,2-Trichloroethane	ug/L	50	58.5	117	60-140	
1,1-Dichloroethane	ug/L	50	58.0	116	60-140	
1,1-Dichloroethene	ug/L	50	55.9	112	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	60-140	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	56.8	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,3-Dichloropropane	ug/L	50	50.3	101	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	48.8	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	50.6	101	60-140	
Bromochloromethane	ug/L	50	64.2	128	60-140	
Bromodichloromethane	ug/L	50	53.8	108	60-140	
Bromoform	ug/L	50	51.7	103	60-140	
Bromomethane	ug/L	50	47.5	95	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	33.0	66	60-140	
Chloroform	ug/L	50	58.9	118	60-140	
Chloromethane	ug/L	50	46.5	93	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	51.2	102	60-140	
Dibromomethane	ug/L	50	61.7	123	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	52.6	105	60-140	
Ethylbenzene	ug/L	50	47.6	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	96.0	96	60-140	
Methyl-tert-butyl ether	ug/L	50	57.2	114	60-140	
Methylene Chloride	ug/L	50	56.4	113	60-140	
n-Butylbenzene	ug/L	50	47.5	95	60-140	
n-Propylbenzene	ug/L	50	48.0	96	60-140	
Naphthalene	ug/L	50	52.7	105	60-140	
o-Xylene	ug/L	50	49.8	100	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.0	100	60-140	
tert-Butylbenzene	ug/L	50	41.1	82	60-140	
Tetrachloroethene	ug/L	50	49.0	98	60-140	
Toluene	ug/L	50	55.4	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	56.4	113	60-140	
Trichlorofluoromethane	ug/L	50	46.5	93	60-140	
Vinyl chloride	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.5	103	108	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.6	25.8	123	129	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	25.0	26.3	125	132	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	27.7	128	138	60-140	7	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.4	22.2	117	111	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.2	23.8	116	119	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.1	103	110	60-140	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	21.5	100	108	60-140	7	
1,2-Dichloropropane	ug/L	ND	20	20	24.0	25.0	120	125	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	21.8	103	109	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.9	104	109	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.2	102	106	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	25.2	26.7	126	134	60-140	6	
2-Chlorotoluene	ug/L	ND	20	20	20.6	22.0	103	110	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	19.8	20.8	99	104	60-140	5	
Benzene	ug/L	ND	20	20	23.8	24.8	119	124	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	22.0	103	110	60-140	6	
Bromochloromethane	ug/L	ND	20	20	25.9	27.3	129	136	60-140	5	
Bromodichloromethane	ug/L	ND	20	20	22.5	23.3	113	116	60-140	3	
Bromoform	ug/L	ND	20	20	20.7	21.6	103	108	60-140	4	
Bromomethane	ug/L	ND	20	20	22.5	23.2	113	116	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	23.0	23.9	115	119	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5	
Chloroethane	ug/L	ND	20	20	19.0	20.1	95	101	60-140	6	
Chloroform	ug/L	ND	20	20	24.0	24.9	120	124	60-140	3	
Chloromethane	ug/L	ND	20	20	21.9	22.3	110	111	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.6	25.1	118	125	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	25.8	123	129	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.8	21.9	104	110	60-140	5	
Dibromomethane	ug/L	ND	20	20	25.1	26.1	126	131	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.6	24.5	123	122	60-140	0	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.9	42.9	102	107	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	25.0	116	125	60-140	7	
Methylene Chloride	ug/L	ND	20	20	24.0	25.5	120	128	60-140	6	

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

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-Revised Report
Pace Project No.: 92514747

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.3	21.9	107	110	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.7	21.6	103	108	60-140	5	
Naphthalene	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
o-Xylene	ug/L	ND	20	20	20.9	21.9	104	109	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	21.3	21.9	107	109	60-140	3	
Styrene	ug/L	ND	20	20	20.5	21.3	103	107	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
Toluene	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	117	120	60-140	3	
Trichloroethene	ug/L	ND	20	20	24.6	25.7	123	128	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.7	112	119	60-140	6	
Vinyl chloride	ug/L	ND	20	20	22.8	24.1	114	121	60-140	6	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514747

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514747001	**13800_HC_RD_20210105**	MADEPV	1602050	MADEP VPH	1602050
92514747001	**13800_HC_RD_20210105**	EPA 3010A	591105	EPA 6010D	591117
92514747001	**13800_HC_RD_20210105**	SM 6200B	590757		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92514747

92514747

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: 2020-11-7448 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
13800.NC.RD.202115	OW	G	1-5-21	0900				8	X	X	X

** 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:

92514747 001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

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

Lab Tracking #: 2529450

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ST0064
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	1-5-21 1350	MD GPaeth VL	1-5-21 13:50
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

January 11, 2021

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

RE: Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514751

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Sara Coble for
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-Revised Report
Pace Project No.: 92514751

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-Revised Report
Pace Project No.: 92514751

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514751001	**14226_HC_RD_20210105**	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514751

Sample: 14226_HC_RD_20210105 **Lab ID: 92514751001** Collected: 01/05/21 11:05 Received: 01/05/21 13:50 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	01/08/21 02:39	01/08/21 02:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 02:39	01/08/21 02:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 02:39	01/08/21 02:39	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 02:39	01/08/21 02:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.9	%	70.0-130	1	01/08/21 02:39	01/08/21 02:39	615-59-8FID	
2,5-Dibromotoluene (PID)	86.4	%	70.0-130	1	01/08/21 02:39	01/08/21 02:39	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	01/07/21 02:07	01/07/21 16:45	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 01:17	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 01:17	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 01:17	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 01:17	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 01:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 01:17	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:17	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:17	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:17	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 01:17	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 01:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 01:17	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 01:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 01:17	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 01:17	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 01:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 01:17	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 01:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 01:17	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 01:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 01:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 01:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 01:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:17	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514751

Sample: 14226_HC_RD_20210105 **Lab ID: 92514751001** Collected: 01/05/21 11:05 Received: 01/05/21 13:50 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		01/06/21 01:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 01:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 01:17	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 01:17	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 01:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 01:17	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 01:17	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 01:17	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 01:17	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 01:17	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 01:17	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 01:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 01:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 01:17	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 01:17	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 01:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 01:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 01:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 01:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 01:17	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 01:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 01:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 01:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 01:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 01:17	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 01:17	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 01:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 01:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 01:17	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 01:17	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 01:17	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514751

QC Batch: 1602050
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514751001

METHOD BLANK: R3610884-3 Matrix: Water
Associated Lab Samples: 92514751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 23:53	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 23:53	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 23:53	
Total VPH	ug/L	ND	100	01/07/21 23:53	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/07/21 23:53	
2,5-Dibromotoluene (PID)	%	78.4	70.0-130	01/07/21 23:53	

LABORATORY CONTROL SAMPLE & LCSD: R3610884-1 R3610884-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1240	103	103	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1460	1460	104	104	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	183	185	91.5	92.5	70.0-130	1.09	25	
Total VPH	ug/L	2800	2880	2890	103	103	70.0-130	0.347	25	
2,5-Dibromotoluene (FID)	%				103	98.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.3	88.2	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514751

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514751001

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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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-Revised Report
Pace Project No.: 92514751

QC Batch: 590757
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514751001

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
Benzene	ug/L	ND	0.50	01/05/21 23:47	
Bromobenzene	ug/L	ND	0.50	01/05/21 23:47	
Bromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromoform	ug/L	ND	0.50	01/05/21 23:47	
Bromomethane	ug/L	ND	5.0	01/05/21 23:47	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 23:47	
Chlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
Chloroethane	ug/L	ND	1.0	01/05/21 23:47	
Chloroform	ug/L	ND	0.50	01/05/21 23:47	
Chloromethane	ug/L	ND	1.0	01/05/21 23:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Dibromomethane	ug/L	ND	0.50	01/05/21 23:47	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 23:47	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 23:47	

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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-Revised Report
Pace Project No.: 92514751

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514751001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 23:47	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 23:47	
m&p-Xylene	ug/L	ND	1.0	01/05/21 23:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 23:47	
Methylene Chloride	ug/L	ND	2.0	01/05/21 23:47	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Naphthalene	ug/L	ND	2.0	01/05/21 23:47	
o-Xylene	ug/L	ND	0.50	01/05/21 23:47	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Styrene	ug/L	ND	0.50	01/05/21 23:47	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 23:47	
Toluene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Trichloroethene	ug/L	ND	0.50	01/05/21 23:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 23:47	
Vinyl chloride	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 23:47	
4-Bromofluorobenzene (S)	%	100	70-130	01/05/21 23:47	
Toluene-d8 (S)	%	104	70-130	01/05/21 23:47	

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	60-140	
1,1,2-Trichloroethane	ug/L	50	58.5	117	60-140	
1,1-Dichloroethane	ug/L	50	58.0	116	60-140	
1,1-Dichloroethene	ug/L	50	55.9	112	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	60-140	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	56.8	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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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-Revised Report
Pace Project No.: 92514751

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,3-Dichloropropane	ug/L	50	50.3	101	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	48.8	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	50.6	101	60-140	
Bromochloromethane	ug/L	50	64.2	128	60-140	
Bromodichloromethane	ug/L	50	53.8	108	60-140	
Bromoform	ug/L	50	51.7	103	60-140	
Bromomethane	ug/L	50	47.5	95	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	33.0	66	60-140	
Chloroform	ug/L	50	58.9	118	60-140	
Chloromethane	ug/L	50	46.5	93	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	51.2	102	60-140	
Dibromomethane	ug/L	50	61.7	123	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	52.6	105	60-140	
Ethylbenzene	ug/L	50	47.6	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	96.0	96	60-140	
Methyl-tert-butyl ether	ug/L	50	57.2	114	60-140	
Methylene Chloride	ug/L	50	56.4	113	60-140	
n-Butylbenzene	ug/L	50	47.5	95	60-140	
n-Propylbenzene	ug/L	50	48.0	96	60-140	
Naphthalene	ug/L	50	52.7	105	60-140	
o-Xylene	ug/L	50	49.8	100	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.0	100	60-140	
tert-Butylbenzene	ug/L	50	41.1	82	60-140	
Tetrachloroethene	ug/L	50	49.0	98	60-140	
Toluene	ug/L	50	55.4	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	56.4	113	60-140	
Trichlorofluoromethane	ug/L	50	46.5	93	60-140	
Vinyl chloride	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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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-Revised Report
Pace Project No.: 92514751

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.5	103	108	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.6	25.8	123	129	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	25.0	26.3	125	132	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	27.7	128	138	60-140	7	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.4	22.2	117	111	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.2	23.8	116	119	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.1	103	110	60-140	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	21.5	100	108	60-140	7	
1,2-Dichloropropane	ug/L	ND	20	20	24.0	25.0	120	125	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	21.8	103	109	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.9	104	109	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.2	102	106	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	25.2	26.7	126	134	60-140	6	
2-Chlorotoluene	ug/L	ND	20	20	20.6	22.0	103	110	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	19.8	20.8	99	104	60-140	5	
Benzene	ug/L	ND	20	20	23.8	24.8	119	124	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	22.0	103	110	60-140	6	
Bromochloromethane	ug/L	ND	20	20	25.9	27.3	129	136	60-140	5	
Bromodichloromethane	ug/L	ND	20	20	22.5	23.3	113	116	60-140	3	
Bromoform	ug/L	ND	20	20	20.7	21.6	103	108	60-140	4	
Bromomethane	ug/L	ND	20	20	22.5	23.2	113	116	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	23.0	23.9	115	119	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5	
Chloroethane	ug/L	ND	20	20	19.0	20.1	95	101	60-140	6	
Chloroform	ug/L	ND	20	20	24.0	24.9	120	124	60-140	3	
Chloromethane	ug/L	ND	20	20	21.9	22.3	110	111	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.6	25.1	118	125	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	25.8	123	129	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.8	21.9	104	110	60-140	5	
Dibromomethane	ug/L	ND	20	20	25.1	26.1	126	131	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.6	24.5	123	122	60-140	0	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.9	42.9	102	107	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	25.0	116	125	60-140	7	
Methylene Chloride	ug/L	ND	20	20	24.0	25.5	120	128	60-140	6	

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

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-Revised Report
Pace Project No.: 92514751

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.3	21.9	107	110	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.7	21.6	103	108	60-140	5	
Naphthalene	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
o-Xylene	ug/L	ND	20	20	20.9	21.9	104	109	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	21.3	21.9	107	109	60-140	3	
Styrene	ug/L	ND	20	20	20.5	21.3	103	107	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
Toluene	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	117	120	60-140	3	
Trichloroethene	ug/L	ND	20	20	24.6	25.7	123	128	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.7	112	119	60-140	6	
Vinyl chloride	ug/L	ND	20	20	22.8	24.1	114	121	60-140	6	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514751

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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514751

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514751001	**14226_HC_RD_20210105**	MADEPV	1602050	MADEP VPH	1602050
92514751001	**14226_HC_RD_20210105**	EPA 3010A	591105	EPA 6010D	591117
92514751001	**14226_HC_RD_20210105**	SM 6200B	590757		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB U … Number or

WO# : 92514751

92514751

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-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)

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
14226-HC-RD-202115	OW	G	1-5-20	1105				8	X	X	X

** 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: 92514751 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:

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

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

Lab Tracking #: 2561305

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 521064
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	1-5-20 1350	MD Pace HVL	1-5-21 13:50
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

January 11, 2021

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

RE: Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Report revised 01/11/21-Sample Id was correct to new ID.

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

Sincerely,

Sara Coble for
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-Revised Report
Pace Project No.: 92514754

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-Revised Report
Pace Project No.: 92514754

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514754001	**13926A_HC_RD_20210105**	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

Sample: 13926A_HC_RD_20210105 **Lab ID: 92514754001** Collected: 01/05/21 12:55 Received: 01/05/21 13:50 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	01/08/21 01:00	01/08/21 01:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 01:00	01/08/21 01:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 01:00	01/08/21 01:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 01:00	01/08/21 01:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.4	%	70.0-130	1	01/08/21 01:00	01/08/21 01:00	615-59-8FID	
2,5-Dibromotoluene (PID)	87.1	%	70.0-130	1	01/08/21 01:00	01/08/21 01:00	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	01/07/21 02:07	01/07/21 16:48	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 01:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 01:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 01:35	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 01:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 01:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 01:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 01:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 01:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 01:35	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 01:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 01:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 01:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 01:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 01:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 01:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 01:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 01:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 01:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 01:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 01:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:35	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

Sample: 13926A_HC_RD_20210105 **Lab ID: 92514754001** Collected: 01/05/21 12:55 Received: 01/05/21 13:50 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		01/06/21 01:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 01:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 01:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 01:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 01:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 01:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 01:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 01:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 01:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 01:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 01:35	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 01:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 01:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 01:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 01:35	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 01:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 01:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 01:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 01:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 01:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 01:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 01:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 01:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 01:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 01:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 01:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 01:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 01:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		01/06/21 01:35	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 01:35	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 01:35	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

QC Batch: 1602050
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514754001

METHOD BLANK: R3610884-3 Matrix: Water
Associated Lab Samples: 92514754001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 23:53	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 23:53	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 23:53	
Total VPH	ug/L	ND	100	01/07/21 23:53	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/07/21 23:53	
2,5-Dibromotoluene (PID)	%	78.4	70.0-130	01/07/21 23:53	

LABORATORY CONTROL SAMPLE & LCSD: R3610884-1 R3610884-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1240	103	103	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1460	1460	104	104	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	183	185	91.5	92.5	70.0-130	1.09	25	
Total VPH	ug/L	2800	2880	2890	103	103	70.0-130	0.347	25	
2,5-Dibromotoluene (FID)	%				103	98.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.3	88.2	70.0-130			

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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-Revised Report
Pace Project No.: 92514754

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514754001

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514754001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

QC Batch: 590757
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514754001

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514754001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
Benzene	ug/L	ND	0.50	01/05/21 23:47	
Bromobenzene	ug/L	ND	0.50	01/05/21 23:47	
Bromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromoform	ug/L	ND	0.50	01/05/21 23:47	
Bromomethane	ug/L	ND	5.0	01/05/21 23:47	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 23:47	
Chlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
Chloroethane	ug/L	ND	1.0	01/05/21 23:47	
Chloroform	ug/L	ND	0.50	01/05/21 23:47	
Chloromethane	ug/L	ND	1.0	01/05/21 23:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Dibromomethane	ug/L	ND	0.50	01/05/21 23:47	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 23:47	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 23:47	

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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-Revised Report
Pace Project No.: 92514754

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514754001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 23:47	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 23:47	
m&p-Xylene	ug/L	ND	1.0	01/05/21 23:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 23:47	
Methylene Chloride	ug/L	ND	2.0	01/05/21 23:47	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Naphthalene	ug/L	ND	2.0	01/05/21 23:47	
o-Xylene	ug/L	ND	0.50	01/05/21 23:47	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Styrene	ug/L	ND	0.50	01/05/21 23:47	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 23:47	
Toluene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Trichloroethene	ug/L	ND	0.50	01/05/21 23:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 23:47	
Vinyl chloride	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 23:47	
4-Bromofluorobenzene (S)	%	100	70-130	01/05/21 23:47	
Toluene-d8 (S)	%	104	70-130	01/05/21 23:47	

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	60-140	
1,1,2-Trichloroethane	ug/L	50	58.5	117	60-140	
1,1-Dichloroethane	ug/L	50	58.0	116	60-140	
1,1-Dichloroethene	ug/L	50	55.9	112	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	60-140	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	56.8	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,3-Dichloropropane	ug/L	50	50.3	101	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	48.8	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	50.6	101	60-140	
Bromochloromethane	ug/L	50	64.2	128	60-140	
Bromodichloromethane	ug/L	50	53.8	108	60-140	
Bromoform	ug/L	50	51.7	103	60-140	
Bromomethane	ug/L	50	47.5	95	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	33.0	66	60-140	
Chloroform	ug/L	50	58.9	118	60-140	
Chloromethane	ug/L	50	46.5	93	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	51.2	102	60-140	
Dibromomethane	ug/L	50	61.7	123	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	52.6	105	60-140	
Ethylbenzene	ug/L	50	47.6	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	96.0	96	60-140	
Methyl-tert-butyl ether	ug/L	50	57.2	114	60-140	
Methylene Chloride	ug/L	50	56.4	113	60-140	
n-Butylbenzene	ug/L	50	47.5	95	60-140	
n-Propylbenzene	ug/L	50	48.0	96	60-140	
Naphthalene	ug/L	50	52.7	105	60-140	
o-Xylene	ug/L	50	49.8	100	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.0	100	60-140	
tert-Butylbenzene	ug/L	50	41.1	82	60-140	
Tetrachloroethene	ug/L	50	49.0	98	60-140	
Toluene	ug/L	50	55.4	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	56.4	113	60-140	
Trichlorofluoromethane	ug/L	50	46.5	93	60-140	
Vinyl chloride	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.5	103	108	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.6	25.8	123	129	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	25.0	26.3	125	132	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	27.7	128	138	60-140	7	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.4	22.2	117	111	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.2	23.8	116	119	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.1	103	110	60-140	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	21.5	100	108	60-140	7	
1,2-Dichloropropane	ug/L	ND	20	20	24.0	25.0	120	125	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	21.8	103	109	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.9	104	109	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.2	102	106	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	25.2	26.7	126	134	60-140	6	
2-Chlorotoluene	ug/L	ND	20	20	20.6	22.0	103	110	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	19.8	20.8	99	104	60-140	5	
Benzene	ug/L	ND	20	20	23.8	24.8	119	124	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	22.0	103	110	60-140	6	
Bromochloromethane	ug/L	ND	20	20	25.9	27.3	129	136	60-140	5	
Bromodichloromethane	ug/L	ND	20	20	22.5	23.3	113	116	60-140	3	
Bromoform	ug/L	ND	20	20	20.7	21.6	103	108	60-140	4	
Bromomethane	ug/L	ND	20	20	22.5	23.2	113	116	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	23.0	23.9	115	119	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5	
Chloroethane	ug/L	ND	20	20	19.0	20.1	95	101	60-140	6	
Chloroform	ug/L	ND	20	20	24.0	24.9	120	124	60-140	3	
Chloromethane	ug/L	ND	20	20	21.9	22.3	110	111	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.6	25.1	118	125	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	25.8	123	129	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.8	21.9	104	110	60-140	5	
Dibromomethane	ug/L	ND	20	20	25.1	26.1	126	131	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.6	24.5	123	122	60-140	0	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.9	42.9	102	107	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	25.0	116	125	60-140	7	
Methylene Chloride	ug/L	ND	20	20	24.0	25.5	120	128	60-140	6	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.3	21.9	107	110	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.7	21.6	103	108	60-140	5	
Naphthalene	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
o-Xylene	ug/L	ND	20	20	20.9	21.9	104	109	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	21.3	21.9	107	109	60-140	3	
Styrene	ug/L	ND	20	20	20.5	21.3	103	107	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
Toluene	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	117	120	60-140	3	
Trichloroethene	ug/L	ND	20	20	24.6	25.7	123	128	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.7	112	119	60-140	6	
Vinyl chloride	ug/L	ND	20	20	22.8	24.1	114	121	60-140	6	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514754

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514754001	**13926A_HC_RD_20210105**	MADEPV	1602050	MADEP VPH	1602050
92514754001	**13926A_HC_RD_20210105**	EPA 3010A	591105	EPA 6010D	591117
92514754001	**13926A_HC_RD_20210105**	SM 6200B	590757		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

WO# : 92514754

92514754

order Number or

NLY

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: 2020-21-2448 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	MADEP VPH	Lead	Lab Profile/Line: Lab Sample # / Comments
13926A_HC_RD_202115	DW	G	1-5-21	1255				8	X	X	X	92514754

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:

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

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

Lab Tracking #: 2529452

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

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 92106

Cooler 1 Temp Upon Receipt: 5.6 oC

Cooler 1 Therm Corr. Factor: -.1 oC

Cooler 1 Corrected Temp: 5.5 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	1-5-21 1350	MD GPace HK	1-5-21 1350
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

January 11, 2021

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

RE: Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Report revised 01/11/21-Sample Id was correct to new ID.

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

Sincerely,

Sara Coble for
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-Revised Report
Pace Project No.: 92514756

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
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514756001	**13835_AC_RD_20210105**	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

Sample: 13835_AC_RD_20210105 **Lab ID: 92514756001** Collected: 01/05/21 11:40 Received: 01/05/21 13:50 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	01/08/21 02:05	01/08/21 02:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/08/21 02:05	01/08/21 02:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/08/21 02:05	01/08/21 02:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/08/21 02:05	01/08/21 02:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.9	%	70.0-130	1	01/08/21 02:05	01/08/21 02:05	615-59-8FID	
2,5-Dibromotoluene (PID)	87.8	%	70.0-130	1	01/08/21 02:05	01/08/21 02:05	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	01/07/21 02:07	01/07/21 16:51	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 01:53	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 01:53	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 01:53	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 01:53	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 01:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 01:53	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:53	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:53	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 01:53	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 01:53	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 01:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 01:53	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 01:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 01:53	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 01:53	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 01:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 01:53	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 01:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 01:53	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 01:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 01:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 01:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 01:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 01:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 01:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 01:53	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

Sample: 13835_AC_RD_20210105 **Lab ID: 92514756001** Collected: 01/05/21 11:40 Received: 01/05/21 13:50 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		01/06/21 01:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 01:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 01:53	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 01:53	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 01:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 01:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 01:53	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 01:53	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 01:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 01:53	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 01:53	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 01:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 01:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 01:53	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 01:53	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 01:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 01:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 01:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 01:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 01:53	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 01:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 01:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 01:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 01:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 01:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 01:53	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 01:53	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 01:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 01:53	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/06/21 01:53	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 01:53	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

QC Batch: 1602050
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514756001

METHOD BLANK: R3610884-3 Matrix: Water
Associated Lab Samples: 92514756001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 23:53	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 23:53	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 23:53	
Total VPH	ug/L	ND	100	01/07/21 23:53	
2,5-Dibromotoluene (FID)	%	88.5	70.0-130	01/07/21 23:53	
2,5-Dibromotoluene (PID)	%	78.4	70.0-130	01/07/21 23:53	

LABORATORY CONTROL SAMPLE & LCSD: R3610884-1 R3610884-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1240	1240	103	103	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1460	1460	104	104	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	183	185	91.5	92.5	70.0-130	1.09	25	
Total VPH	ug/L	2800	2880	2890	103	103	70.0-130	0.347	25	
2,5-Dibromotoluene (FID)	%				103	98.6	70.0-130			
2,5-Dibromotoluene (PID)	%				93.3	88.2	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514756001

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514756001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

QC Batch: 590757
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514756001

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514756001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
Benzene	ug/L	ND	0.50	01/05/21 23:47	
Bromobenzene	ug/L	ND	0.50	01/05/21 23:47	
Bromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromoform	ug/L	ND	0.50	01/05/21 23:47	
Bromomethane	ug/L	ND	5.0	01/05/21 23:47	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 23:47	
Chlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
Chloroethane	ug/L	ND	1.0	01/05/21 23:47	
Chloroform	ug/L	ND	0.50	01/05/21 23:47	
Chloromethane	ug/L	ND	1.0	01/05/21 23:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Dibromomethane	ug/L	ND	0.50	01/05/21 23:47	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 23:47	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 23:47	

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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-Revised Report
Pace Project No.: 92514756

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514756001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 23:47	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 23:47	
m&p-Xylene	ug/L	ND	1.0	01/05/21 23:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 23:47	
Methylene Chloride	ug/L	ND	2.0	01/05/21 23:47	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Naphthalene	ug/L	ND	2.0	01/05/21 23:47	
o-Xylene	ug/L	ND	0.50	01/05/21 23:47	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Styrene	ug/L	ND	0.50	01/05/21 23:47	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 23:47	
Toluene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Trichloroethene	ug/L	ND	0.50	01/05/21 23:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 23:47	
Vinyl chloride	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 23:47	
4-Bromofluorobenzene (S)	%	100	70-130	01/05/21 23:47	
Toluene-d8 (S)	%	104	70-130	01/05/21 23:47	

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	60-140	
1,1,2-Trichloroethane	ug/L	50	58.5	117	60-140	
1,1-Dichloroethane	ug/L	50	58.0	116	60-140	
1,1-Dichloroethene	ug/L	50	55.9	112	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	60-140	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	56.8	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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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-Revised Report
Pace Project No.: 92514756

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,3-Dichloropropane	ug/L	50	50.3	101	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	48.8	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	50.6	101	60-140	
Bromochloromethane	ug/L	50	64.2	128	60-140	
Bromodichloromethane	ug/L	50	53.8	108	60-140	
Bromoform	ug/L	50	51.7	103	60-140	
Bromomethane	ug/L	50	47.5	95	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	33.0	66	60-140	
Chloroform	ug/L	50	58.9	118	60-140	
Chloromethane	ug/L	50	46.5	93	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	51.2	102	60-140	
Dibromomethane	ug/L	50	61.7	123	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	52.6	105	60-140	
Ethylbenzene	ug/L	50	47.6	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	96.0	96	60-140	
Methyl-tert-butyl ether	ug/L	50	57.2	114	60-140	
Methylene Chloride	ug/L	50	56.4	113	60-140	
n-Butylbenzene	ug/L	50	47.5	95	60-140	
n-Propylbenzene	ug/L	50	48.0	96	60-140	
Naphthalene	ug/L	50	52.7	105	60-140	
o-Xylene	ug/L	50	49.8	100	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.0	100	60-140	
tert-Butylbenzene	ug/L	50	41.1	82	60-140	
Tetrachloroethene	ug/L	50	49.0	98	60-140	
Toluene	ug/L	50	55.4	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	56.4	113	60-140	
Trichlorofluoromethane	ug/L	50	46.5	93	60-140	
Vinyl chloride	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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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-Revised Report
Pace Project No.: 92514756

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.5	103	108	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.6	25.8	123	129	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	25.0	26.3	125	132	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	27.7	128	138	60-140	7	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.4	22.2	117	111	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.2	23.8	116	119	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.1	103	110	60-140	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	21.5	100	108	60-140	7	
1,2-Dichloropropane	ug/L	ND	20	20	24.0	25.0	120	125	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	21.8	103	109	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.9	104	109	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.2	102	106	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	25.2	26.7	126	134	60-140	6	
2-Chlorotoluene	ug/L	ND	20	20	20.6	22.0	103	110	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	19.8	20.8	99	104	60-140	5	
Benzene	ug/L	ND	20	20	23.8	24.8	119	124	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	22.0	103	110	60-140	6	
Bromochloromethane	ug/L	ND	20	20	25.9	27.3	129	136	60-140	5	
Bromodichloromethane	ug/L	ND	20	20	22.5	23.3	113	116	60-140	3	
Bromoform	ug/L	ND	20	20	20.7	21.6	103	108	60-140	4	
Bromomethane	ug/L	ND	20	20	22.5	23.2	113	116	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	23.0	23.9	115	119	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5	
Chloroethane	ug/L	ND	20	20	19.0	20.1	95	101	60-140	6	
Chloroform	ug/L	ND	20	20	24.0	24.9	120	124	60-140	3	
Chloromethane	ug/L	ND	20	20	21.9	22.3	110	111	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.6	25.1	118	125	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	25.8	123	129	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.8	21.9	104	110	60-140	5	
Dibromomethane	ug/L	ND	20	20	25.1	26.1	126	131	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.6	24.5	123	122	60-140	0	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.9	42.9	102	107	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	25.0	116	125	60-140	7	
Methylene Chloride	ug/L	ND	20	20	24.0	25.5	120	128	60-140	6	

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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-Revised Report
Pace Project No.: 92514756

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.3	21.9	107	110	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.7	21.6	103	108	60-140	5	
Naphthalene	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
o-Xylene	ug/L	ND	20	20	20.9	21.9	104	109	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	21.3	21.9	107	109	60-140	3	
Styrene	ug/L	ND	20	20	20.5	21.3	103	107	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
Toluene	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	117	120	60-140	3	
Trichloroethene	ug/L	ND	20	20	24.6	25.7	123	128	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.7	112	119	60-140	6	
Vinyl chloride	ug/L	ND	20	20	22.8	24.1	114	121	60-140	6	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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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-Revised Report
Pace Project No.: 92514756

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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514756

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514756001	**13835_AC_RD_20210105**	MADEPV	1602050	MADEP VPH	1602050
92514756001	**13835_AC_RD_20210105**	EPA 3010A	591105	EPA 6010D	591117
92514756001	**13835_AC_RD_20210105**	SM 6200B	590757		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB US[E] ... Number or

WO# : 92514756
92514756

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcoscom
Copy To:	Site Collection Info/Address: 13835 Asbury Chapel
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 Teetz	Purchase Order #: Quote #:
	DW PWS ID #: DW Location Code:
Collected By (signature): Naomi Fetz	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

Contai[ner]

* 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	Time	Composite End Date	Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
13835_AC-RD-202115	DW	G	1-5-21	1140				8	X	X	X	92514756 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:

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

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

Lab Tracking #: 2561303

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: S21064
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Naomi Fetz / Apex	1-5-21 1350	MDG Pace HVL 1-5-21	13:50	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

January 11, 2021

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

RE: Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Report revised 01/11/21-Sample Id was correct to new ID.

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

Sincerely,

Sara Coble for
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-Revised Report
Pace Project No.: 92514757

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-Revised Report
Pace Project No.: 92514757

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514757001	**13926B_HC_RD_20210105**	MADEP VPH	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

Sample: 13926B_HC_RD_20210105 **Lab ID: 92514757001** Collected: 01/05/21 12:20 Received: 01/05/21 13:50 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	01/07/21 13:50	01/07/21 13:50		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 13:50	01/07/21 13:50		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 13:50	01/07/21 13:50	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 13:50	01/07/21 13:50	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.4	%	70.0-130	1	01/07/21 13:50	01/07/21 13:50	615-59-8FID	
2,5-Dibromotoluene (PID)	84.5	%	70.0-130	1	01/07/21 13:50	01/07/21 13:50	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	01/07/21 02:07	01/07/21 16:54	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 02:11	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 02:11	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 02:11	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 02:11	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 02:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 02:11	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:11	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:11	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:11	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 02:11	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 02:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 02:11	75-00-3	
Chloroform	**11.5**	ug/L	0.50	1		01/06/21 02:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 02:11	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 02:11	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 02:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 02:11	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 02:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 02:11	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 02:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 02:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 02:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 02:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:11	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

Sample: 13926B_HC_RD_20210105 **Lab ID: 92514757001** Collected: 01/05/21 12:20 Received: 01/05/21 13:50 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		01/06/21 02:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 02:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 02:11	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 02:11	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 02:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 02:11	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 02:11	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 02:11	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 02:11	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 02:11	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 02:11	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 02:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 02:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 02:11	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 02:11	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 02:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 02:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 02:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 02:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 02:11	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 02:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 02:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 02:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 02:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 02:11	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 02:11	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 02:11	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 02:11	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/06/21 02:11	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/06/21 02:11	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 02:11	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

QC Batch: 1602057
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514757001

METHOD BLANK: R3610581-3 Matrix: Water
Associated Lab Samples: 92514757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 02:30	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 02:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 02:30	
Total VPH	ug/L	ND	100	01/07/21 02:30	
2,5-Dibromotoluene (FID)	%	91.2	70.0-130	01/07/21 02:30	
2,5-Dibromotoluene (PID)	%	82.9	70.0-130	01/07/21 02:30	

LABORATORY CONTROL SAMPLE & LCSD: R3610581-1 R3610581-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1320	1250	110	104	70.0-130	5.45	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1530	116	109	70.0-130	5.71	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	208	198	104	99.0	70.0-130	4.93	25	
Total VPH	ug/L	2800	3150	2980	113	106	70.0-130	5.55	25	
2,5-Dibromotoluene (FID)	%				94.8	103	70.0-130			
2,5-Dibromotoluene (PID)	%				87.9	96.2	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514757001

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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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-Revised Report
Pace Project No.: 92514757

QC Batch: 590757
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514757001

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
Benzene	ug/L	ND	0.50	01/05/21 23:47	
Bromobenzene	ug/L	ND	0.50	01/05/21 23:47	
Bromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromoform	ug/L	ND	0.50	01/05/21 23:47	
Bromomethane	ug/L	ND	5.0	01/05/21 23:47	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 23:47	
Chlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
Chloroethane	ug/L	ND	1.0	01/05/21 23:47	
Chloroform	ug/L	ND	0.50	01/05/21 23:47	
Chloromethane	ug/L	ND	1.0	01/05/21 23:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Dibromomethane	ug/L	ND	0.50	01/05/21 23:47	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 23:47	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 23:47	

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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-Revised Report
Pace Project No.: 92514757

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 23:47	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 23:47	
m&p-Xylene	ug/L	ND	1.0	01/05/21 23:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 23:47	
Methylene Chloride	ug/L	ND	2.0	01/05/21 23:47	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Naphthalene	ug/L	ND	2.0	01/05/21 23:47	
o-Xylene	ug/L	ND	0.50	01/05/21 23:47	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Styrene	ug/L	ND	0.50	01/05/21 23:47	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 23:47	
Toluene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Trichloroethene	ug/L	ND	0.50	01/05/21 23:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 23:47	
Vinyl chloride	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 23:47	
4-Bromofluorobenzene (S)	%	100	70-130	01/05/21 23:47	
Toluene-d8 (S)	%	104	70-130	01/05/21 23:47	

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	60-140	
1,1,2-Trichloroethane	ug/L	50	58.5	117	60-140	
1,1-Dichloroethane	ug/L	50	58.0	116	60-140	
1,1-Dichloroethene	ug/L	50	55.9	112	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	60-140	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	56.8	114	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-Revised Report
Pace Project No.: 92514757

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,3-Dichloropropane	ug/L	50	50.3	101	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	48.8	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	50.6	101	60-140	
Bromochloromethane	ug/L	50	64.2	128	60-140	
Bromodichloromethane	ug/L	50	53.8	108	60-140	
Bromoform	ug/L	50	51.7	103	60-140	
Bromomethane	ug/L	50	47.5	95	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	33.0	66	60-140	
Chloroform	ug/L	50	58.9	118	60-140	
Chloromethane	ug/L	50	46.5	93	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	51.2	102	60-140	
Dibromomethane	ug/L	50	61.7	123	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	52.6	105	60-140	
Ethylbenzene	ug/L	50	47.6	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	96.0	96	60-140	
Methyl-tert-butyl ether	ug/L	50	57.2	114	60-140	
Methylene Chloride	ug/L	50	56.4	113	60-140	
n-Butylbenzene	ug/L	50	47.5	95	60-140	
n-Propylbenzene	ug/L	50	48.0	96	60-140	
Naphthalene	ug/L	50	52.7	105	60-140	
o-Xylene	ug/L	50	49.8	100	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.0	100	60-140	
tert-Butylbenzene	ug/L	50	41.1	82	60-140	
Tetrachloroethene	ug/L	50	49.0	98	60-140	
Toluene	ug/L	50	55.4	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	56.4	113	60-140	
Trichlorofluoromethane	ug/L	50	46.5	93	60-140	
Vinyl chloride	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			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: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.5	103	108	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.6	25.8	123	129	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	25.0	26.3	125	132	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	27.7	128	138	60-140	7	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.4	22.2	117	111	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.2	23.8	116	119	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.1	103	110	60-140	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	21.5	100	108	60-140	7	
1,2-Dichloropropane	ug/L	ND	20	20	24.0	25.0	120	125	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	21.8	103	109	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.9	104	109	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.2	102	106	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	25.2	26.7	126	134	60-140	6	
2-Chlorotoluene	ug/L	ND	20	20	20.6	22.0	103	110	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	19.8	20.8	99	104	60-140	5	
Benzene	ug/L	ND	20	20	23.8	24.8	119	124	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	22.0	103	110	60-140	6	
Bromochloromethane	ug/L	ND	20	20	25.9	27.3	129	136	60-140	5	
Bromodichloromethane	ug/L	ND	20	20	22.5	23.3	113	116	60-140	3	
Bromoform	ug/L	ND	20	20	20.7	21.6	103	108	60-140	4	
Bromomethane	ug/L	ND	20	20	22.5	23.2	113	116	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	23.0	23.9	115	119	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5	
Chloroethane	ug/L	ND	20	20	19.0	20.1	95	101	60-140	6	
Chloroform	ug/L	ND	20	20	24.0	24.9	120	124	60-140	3	
Chloromethane	ug/L	ND	20	20	21.9	22.3	110	111	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.6	25.1	118	125	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	25.8	123	129	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.8	21.9	104	110	60-140	5	
Dibromomethane	ug/L	ND	20	20	25.1	26.1	126	131	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.6	24.5	123	122	60-140	0	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.9	42.9	102	107	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	25.0	116	125	60-140	7	
Methylene Chloride	ug/L	ND	20	20	24.0	25.5	120	128	60-140	6	

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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-Revised Report
Pace Project No.: 92514757

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.3	21.9	107	110	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.7	21.6	103	108	60-140	5	
Naphthalene	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
o-Xylene	ug/L	ND	20	20	20.9	21.9	104	109	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	21.3	21.9	107	109	60-140	3	
Styrene	ug/L	ND	20	20	20.5	21.3	103	107	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
Toluene	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	117	120	60-140	3	
Trichloroethene	ug/L	ND	20	20	24.6	25.7	123	128	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.7	112	119	60-140	6	
Vinyl chloride	ug/L	ND	20	20	22.8	24.1	114	121	60-140	6	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514757

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514757001	**13926B_HC_RD_20210105**	MADEPV	1602057	MADEP VPH	1602057
92514757001	**13926B_HC_RD_20210105**	EPA 3010A	591105	EPA 6010D	591117
92514757001	**13926B_HC_RD_20210105**	SM 6200B	590757		

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY ... Number or

WO# : 92514757

92514757

Company: Apex Companies	Billing Information:
Address:	
Report To: Andrew Street	Email To: Andrew.Street@apexcos.com
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 Fietz	Purchase Order #: Quote #:
DW PWS ID #: DW Location Code:	
Collected By (signature): Naomi F[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: ______

** 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 Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 6200B	MADEP VPH	Lead	Lab Sample # / Comments
13926B_HC_RD_202115	DW	G	1-5-21	1220				8	X	X	X	92514757 001

Lab Profile/Line:

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y N NA (N circled)
- Custody Signatures Present Y N NA (Y 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
- 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:

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

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

Lab Tracking #: 2529453

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

Lab Sample Temperature Info:
Temp Blank Received: Y N (circled) NA
Therm ID#: 92T064
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fietz / Apex	1-5-21 1350	mDl/Pace Hu 1-5-21	13:50

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

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

Non Conformance(s): YES / NO (circled)

Page: ______ of: ______

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

January 11, 2021

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

RE: Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Report revised 01/11/21-Sample Id was correct to new ID.

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

Sincerely,

Sara Coble for
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-Revised Report
Pace Project No.: 92514759

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-Revised Report
Pace Project No.: 92514759

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514759001	**14401_HC_RD_20210105**	MADEP VPH	JHH	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
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ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

Sample: 14401_HC_RD_20210105 **Lab ID: 92514759001** Collected: 01/05/21 10:10 Received: 01/05/21 13:50 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	01/06/21 20:44	01/06/21 20:44		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/06/21 20:44	01/06/21 20:44		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/06/21 20:44	01/06/21 20:44	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/06/21 20:44	01/06/21 20:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.8	%	70.0-130	1	01/06/21 20:44	01/06/21 20:44	615-59-8FID	
2,5-Dibromotoluene (PID)	104	%	70.0-130	1	01/06/21 20:44	01/06/21 20:44	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	01/07/21 02:07	01/07/21 16:58	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 02:29	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 02:29	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 02:29	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 02:29	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 02:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 02:29	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:29	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:29	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:29	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 02:29	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 02:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 02:29	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 02:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 02:29	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 02:29	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 02:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 02:29	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 02:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 02:29	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 02:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 02:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 02:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 02:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:29	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

Sample: 14401_HC_RD_20210105 **Lab ID: 92514759001** Collected: 01/05/21 10:10 Received: 01/05/21 13:50 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		01/06/21 02:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 02:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 02:29	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 02:29	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 02:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 02:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 02:29	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 02:29	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 02:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 02:29	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 02:29	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 02:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 02:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 02:29	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 02:29	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 02:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 02:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 02:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 02:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 02:29	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 02:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 02:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 02:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 02:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 02:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 02:29	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 02:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 02:29	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 02:29	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 02:29	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 02:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

QC Batch: 1601656
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514759001

METHOD BLANK: R3610431-1 Matrix: Water
Associated Lab Samples: 92514759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/06/21 12:58	
Aliphatic (C09-C12)	ug/L	ND	100	01/06/21 12:58	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/06/21 12:58	
Total VPH	ug/L	ND	100	01/06/21 12:58	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	01/06/21 12:58	
2,5-Dibromotoluene (PID)	%	97.6	70.0-130	01/06/21 12:58	

LABORATORY CONTROL SAMPLE & LCSD: R3610431-2 R3610431-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1380	1380	115	115	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1470	1470	105	105	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	252	257	126	129	70.0-130	1.96	25	
Total VPH	ug/L	2800	3100	3110	111	111	70.0-130	0.322	25	
2,5-Dibromotoluene (FID)	%				100	109	70.0-130			
2,5-Dibromotoluene (PID)	%				108	118	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514759001

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

QC Batch: 590757
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514759001

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
Benzene	ug/L	ND	0.50	01/05/21 23:47	
Bromobenzene	ug/L	ND	0.50	01/05/21 23:47	
Bromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromoform	ug/L	ND	0.50	01/05/21 23:47	
Bromomethane	ug/L	ND	5.0	01/05/21 23:47	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 23:47	
Chlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
Chloroethane	ug/L	ND	1.0	01/05/21 23:47	
Chloroform	ug/L	ND	0.50	01/05/21 23:47	
Chloromethane	ug/L	ND	1.0	01/05/21 23:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Dibromomethane	ug/L	ND	0.50	01/05/21 23:47	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 23:47	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 23:47	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514759001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 23:47	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 23:47	
m&p-Xylene	ug/L	ND	1.0	01/05/21 23:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 23:47	
Methylene Chloride	ug/L	ND	2.0	01/05/21 23:47	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Naphthalene	ug/L	ND	2.0	01/05/21 23:47	
o-Xylene	ug/L	ND	0.50	01/05/21 23:47	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Styrene	ug/L	ND	0.50	01/05/21 23:47	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 23:47	
Toluene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Trichloroethene	ug/L	ND	0.50	01/05/21 23:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 23:47	
Vinyl chloride	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 23:47	
4-Bromofluorobenzene (S)	%	100	70-130	01/05/21 23:47	
Toluene-d8 (S)	%	104	70-130	01/05/21 23:47	

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	60-140	
1,1,2-Trichloroethane	ug/L	50	58.5	117	60-140	
1,1-Dichloroethane	ug/L	50	58.0	116	60-140	
1,1-Dichloroethene	ug/L	50	55.9	112	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	60-140	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	56.8	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,3-Dichloropropane	ug/L	50	50.3	101	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	48.8	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	50.6	101	60-140	
Bromochloromethane	ug/L	50	64.2	128	60-140	
Bromodichloromethane	ug/L	50	53.8	108	60-140	
Bromoform	ug/L	50	51.7	103	60-140	
Bromomethane	ug/L	50	47.5	95	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	33.0	66	60-140	
Chloroform	ug/L	50	58.9	118	60-140	
Chloromethane	ug/L	50	46.5	93	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	51.2	102	60-140	
Dibromomethane	ug/L	50	61.7	123	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	52.6	105	60-140	
Ethylbenzene	ug/L	50	47.6	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	96.0	96	60-140	
Methyl-tert-butyl ether	ug/L	50	57.2	114	60-140	
Methylene Chloride	ug/L	50	56.4	113	60-140	
n-Butylbenzene	ug/L	50	47.5	95	60-140	
n-Propylbenzene	ug/L	50	48.0	96	60-140	
Naphthalene	ug/L	50	52.7	105	60-140	
o-Xylene	ug/L	50	49.8	100	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.0	100	60-140	
tert-Butylbenzene	ug/L	50	41.1	82	60-140	
Tetrachloroethene	ug/L	50	49.0	98	60-140	
Toluene	ug/L	50	55.4	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	56.4	113	60-140	
Trichlorofluoromethane	ug/L	50	46.5	93	60-140	
Vinyl chloride	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			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: 2020-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.5	103	108	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.6	25.8	123	129	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	25.0	26.3	125	132	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	27.7	128	138	60-140	7	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.4	22.2	117	111	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.2	23.8	116	119	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.1	103	110	60-140	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	21.5	100	108	60-140	7	
1,2-Dichloropropane	ug/L	ND	20	20	24.0	25.0	120	125	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	21.8	103	109	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.9	104	109	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.2	102	106	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	25.2	26.7	126	134	60-140	6	
2-Chlorotoluene	ug/L	ND	20	20	20.6	22.0	103	110	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	19.8	20.8	99	104	60-140	5	
Benzene	ug/L	ND	20	20	23.8	24.8	119	124	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	22.0	103	110	60-140	6	
Bromochloromethane	ug/L	ND	20	20	25.9	27.3	129	136	60-140	5	
Bromodichloromethane	ug/L	ND	20	20	22.5	23.3	113	116	60-140	3	
Bromoform	ug/L	ND	20	20	20.7	21.6	103	108	60-140	4	
Bromomethane	ug/L	ND	20	20	22.5	23.2	113	116	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	23.0	23.9	115	119	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5	
Chloroethane	ug/L	ND	20	20	19.0	20.1	95	101	60-140	6	
Chloroform	ug/L	ND	20	20	24.0	24.9	120	124	60-140	3	
Chloromethane	ug/L	ND	20	20	21.9	22.3	110	111	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.6	25.1	118	125	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	25.8	123	129	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.8	21.9	104	110	60-140	5	
Dibromomethane	ug/L	ND	20	20	25.1	26.1	126	131	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.6	24.5	123	122	60-140	0	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.9	42.9	102	107	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	25.0	116	125	60-140	7	
Methylene Chloride	ug/L	ND	20	20	24.0	25.5	120	128	60-140	6	

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

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-Revised Report
Pace Project No.: 92514759

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.3	21.9	107	110	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.7	21.6	103	108	60-140	5	
Naphthalene	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
o-Xylene	ug/L	ND	20	20	20.9	21.9	104	109	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	21.3	21.9	107	109	60-140	3	
Styrene	ug/L	ND	20	20	20.5	21.3	103	107	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
Toluene	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	117	120	60-140	3	
Trichloroethene	ug/L	ND	20	20	24.6	25.7	123	128	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.7	112	119	60-140	6	
Vinyl chloride	ug/L	ND	20	20	22.8	24.1	114	121	60-140	6	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

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-L1-2448 INCIDENT-Revised Report
Pace Project No.: 92514759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514759001	**14401_HC_RD_20210105**	MADEPV	1601656	MADEP VPH	1601656
92514759001	**14401_HC_RD_20210105**	EPA 3010A	591105	EPA 6010D	591117
92514759001	**14401_HC_RD_20210105**	SM 6200B	590757		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ... umber or

WO# : 92514759

92514759

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-CI-2448 Fraident

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	Contain	VOCs 6200B	MADEP VPH	Lead	Analyses	Lab Profile/Line:
14401_NC_RD_202115	DW	G	1-5-21	1010				8		X	X	X		92514759 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:

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

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

Lab Tracking #: 2529451

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: SL069
Cooler 1 Temp Upon Receipt: 5.6 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 5.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	1-5-21 1350	MD Pace HW	1-5-21 13:50
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

January 08, 2021

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

RE: Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Angela 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.: 92514760

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.: 92514760

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514760001	**DUP-1**	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514760002	**FB-1**	MADEP VPH	JHH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92514760003	**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
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

Sample: DUP-1 **Lab ID: 92514760001** Collected: 01/05/21 00:00 Received: 01/05/21 13:50 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	01/07/21 14:23	01/07/21 14:23		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/07/21 14:23	01/07/21 14:23		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/07/21 14:23	01/07/21 14:23	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/07/21 14:23	01/07/21 14:23	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.0	%	70.0-130	1	01/07/21 14:23	01/07/21 14:23	615-59-8FID	
2,5-Dibromotoluene (PID)	87.7	%	70.0-130	1	01/07/21 14:23	01/07/21 14:23	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	01/07/21 02:07	01/07/21 17:01	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 02:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 02:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 02:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 02:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 02:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 02:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 02:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 02:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 02:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 02:47	75-00-3	
Chloroform	**11.7**	ug/L	0.50	1		01/06/21 02:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 02:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 02:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 02:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 02:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 02:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 02:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 02:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 02:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 02:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 02:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 02:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 02:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 02:47	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-L1-2448 INCIDENT
Pace Project No.: 92514760

Sample: DUP-1 **Lab ID: 92514760001** Collected: 01/05/21 00:00 Received: 01/05/21 13:50 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		01/06/21 02:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 02:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 02:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 02:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 02:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 02:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 02:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 02:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 02:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 02:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 02:47	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 02:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 02:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 02:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 02:47	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 02:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 02:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 02:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 02:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 02:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 02:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 02:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 02:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 02:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 02:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 02:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 02:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 02:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/06/21 02:47	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/06/21 02:47	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 02:47	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: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

Sample: FB-1 **Lab ID: 92514760002** Collected: 01/05/21 00:00 Received: 01/05/21 13:50 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	01/06/21 22:22	01/06/21 22:22		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/06/21 22:22	01/06/21 22:22		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/06/21 22:22	01/06/21 22:22	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/06/21 22:22	01/06/21 22:22	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.1	%	70.0-130	1	01/06/21 22:22	01/06/21 22:22	615-59-8FID	
2,5-Dibromotoluene (PID)	100	%	70.0-130	1	01/06/21 22:22	01/06/21 22:22	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	01/07/21 02:07	01/07/21 17:04	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/06/21 00:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 00:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 00:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 00:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 00:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 00:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 00:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 00:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 00:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 00:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 00:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 00:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 00:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 00:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 00:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 00:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 00:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 00:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 00:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 00:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:05	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

Sample: FB-1 **Lab ID: 92514760002** Collected: 01/05/21 00:00 Received: 01/05/21 13:50 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		01/06/21 00:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 00:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 00:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 00:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 00:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 00:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 00:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 00:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 00:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 00:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 00:05	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 00:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 00:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 00:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/06/21 00:05	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 00:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 00:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 00:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 00:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 00:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 00:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 00:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 00:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 00:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 00:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 00:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 00:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 00:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/06/21 00:05	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 00:05	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/06/21 00:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

Sample: TRIP BLANK **Lab ID: 92514760003** Collected: 01/05/21 00:00 Received: 01/05/21 13:50 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		01/06/21 00:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/06/21 00:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/06/21 00:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/06/21 00:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/06/21 00:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/21 00:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/06/21 00:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/06/21 00:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/06/21 00:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/06/21 00:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/06/21 00:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/06/21 00:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 00:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/06/21 00:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/06/21 00:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/06/21 00:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/06/21 00:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/06/21 00:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/06/21 00:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/06/21 00:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/06/21 00:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/06/21 00:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/06/21 00:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/06/21 00:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/06/21 00:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 00:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/06/21 00:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/06/21 00:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/06/21 00:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/06/21 00:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/06/21 00:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/06/21 00:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/06/21 00:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/06/21 00:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/06/21 00:23	103-65-1	
Styrene	ND	ug/L	0.50	1		01/06/21 00:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 00:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/06/21 00:23	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: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

Sample: TRIP BLANK **Lab ID: 92514760003** Collected: 01/05/21 00:00 Received: 01/05/21 13:50 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		01/06/21 00:23	127-18-4	
Toluene	ND	ug/L	0.50	1		01/06/21 00:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 00:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/06/21 00:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/06/21 00:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/06/21 00:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/06/21 00:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/06/21 00:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/06/21 00:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 00:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/06/21 00:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/06/21 00:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/06/21 00:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/06/21 00:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/06/21 00:23	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/06/21 00:23	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/06/21 00:23	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-L1-2448 INCIDENT
Pace Project No.: 92514760

QC Batch: 1601656
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514760002

METHOD BLANK: R3610431-1 Matrix: Water
Associated Lab Samples: 92514760002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/06/21 12:58	
Aliphatic (C09-C12)	ug/L	ND	100	01/06/21 12:58	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/06/21 12:58	
Total VPH	ug/L	ND	100	01/06/21 12:58	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	01/06/21 12:58	
2,5-Dibromotoluene (PID)	%	97.6	70.0-130	01/06/21 12:58	

LABORATORY CONTROL SAMPLE & LCSD: R3610431-2 R3610431-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1380	1380	115	115	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1470	1470	105	105	70.0-130	0.00	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	252	257	126	129	70.0-130	1.96	25	
Total VPH	ug/L	2800	3100	3110	111	111	70.0-130	0.322	25	
2,5-Dibromotoluene (FID)	%				100	109	70.0-130			
2,5-Dibromotoluene (PID)	%				108	118	70.0-130			

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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.: 92514760

QC Batch: 1602057
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92514760001

METHOD BLANK: R3610581-3 Matrix: Water
Associated Lab Samples: 92514760001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/07/21 02:30	
Aliphatic (C09-C12)	ug/L	ND	100	01/07/21 02:30	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/07/21 02:30	
Total VPH	ug/L	ND	100	01/07/21 02:30	
2,5-Dibromotoluene (FID)	%	91.2	70.0-130	01/07/21 02:30	
2,5-Dibromotoluene (PID)	%	82.9	70.0-130	01/07/21 02:30	

LABORATORY CONTROL SAMPLE & LCSD: R3610581-1 R3610581-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1320	1250	110	104	70.0-130	5.45	25	
Aliphatic (C09-C12)	ug/L	1400	1620	1530	116	109	70.0-130	5.71	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	208	198	104	99.0	70.0-130	4.93	25	
Total VPH	ug/L	2800	3150	2980	113	106	70.0-130	5.55	25	
2,5-Dibromotoluene (FID)	%				94.8	103	70.0-130			
2,5-Dibromotoluene (PID)	%				87.9	96.2	70.0-130			

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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.: 92514760

QC Batch: 591105
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92514760001, 92514760002

METHOD BLANK: 3120779 Matrix: Water
Associated Lab Samples: 92514760001, 92514760002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/07/21 16:13	

LABORATORY CONTROL SAMPLE: 3120780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3120781 3120782

Parameter	Units	92514747001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	509	505	102	101	75-125	1	

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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.: 92514760

QC Batch: 590757
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514760001, 92514760002, 92514760003

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514760001, 92514760002, 92514760003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
1,1-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/05/21 23:47	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloroethane	ug/L	ND	0.50	01/05/21 23:47	
1,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
1,3-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
2,2-Dichloropropane	ug/L	ND	0.50	01/05/21 23:47	
2-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
4-Chlorotoluene	ug/L	ND	0.50	01/05/21 23:47	
Benzene	ug/L	ND	0.50	01/05/21 23:47	
Bromobenzene	ug/L	ND	0.50	01/05/21 23:47	
Bromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromodichloromethane	ug/L	ND	0.50	01/05/21 23:47	
Bromoform	ug/L	ND	0.50	01/05/21 23:47	
Bromomethane	ug/L	ND	5.0	01/05/21 23:47	
Carbon tetrachloride	ug/L	ND	0.50	01/05/21 23:47	
Chlorobenzene	ug/L	ND	0.50	01/05/21 23:47	
Chloroethane	ug/L	ND	1.0	01/05/21 23:47	
Chloroform	ug/L	ND	0.50	01/05/21 23:47	
Chloromethane	ug/L	ND	1.0	01/05/21 23:47	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Dibromochloromethane	ug/L	ND	0.50	01/05/21 23:47	
Dibromomethane	ug/L	ND	0.50	01/05/21 23:47	
Dichlorodifluoromethane	ug/L	ND	0.50	01/05/21 23:47	
Diisopropyl ether	ug/L	ND	0.50	01/05/21 23:47	

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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.: 92514760

METHOD BLANK: 3118842 Matrix: Water
Associated Lab Samples: 92514760001, 92514760002, 92514760003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/05/21 23:47	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/05/21 23:47	
m&p-Xylene	ug/L	ND	1.0	01/05/21 23:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/05/21 23:47	
Methylene Chloride	ug/L	ND	2.0	01/05/21 23:47	
n-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
n-Propylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Naphthalene	ug/L	ND	2.0	01/05/21 23:47	
o-Xylene	ug/L	ND	0.50	01/05/21 23:47	
sec-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Styrene	ug/L	ND	0.50	01/05/21 23:47	
tert-Butylbenzene	ug/L	ND	0.50	01/05/21 23:47	
Tetrachloroethene	ug/L	ND	0.50	01/05/21 23:47	
Toluene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/05/21 23:47	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/05/21 23:47	
Trichloroethene	ug/L	ND	0.50	01/05/21 23:47	
Trichlorofluoromethane	ug/L	ND	1.0	01/05/21 23:47	
Vinyl chloride	ug/L	ND	1.0	01/05/21 23:47	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/05/21 23:47	
4-Bromofluorobenzene (S)	%	100	70-130	01/05/21 23:47	
Toluene-d8 (S)	%	104	70-130	01/05/21 23:47	

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,1-Trichloroethane	ug/L	50	57.0	114	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	60-140	
1,1,2-Trichloroethane	ug/L	50	58.5	117	60-140	
1,1-Dichloroethane	ug/L	50	58.0	116	60-140	
1,1-Dichloroethene	ug/L	50	55.9	112	60-140	
1,1-Dichloropropene	ug/L	50	58.4	117	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	60-140	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-140	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	51.6	103	60-140	
1,2-Dichloroethane	ug/L	50	49.3	99	60-140	
1,2-Dichloropropane	ug/L	50	56.8	114	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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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.: 92514760

LABORATORY CONTROL SAMPLE: 3118843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.6	101	60-140	
1,3-Dichloropropane	ug/L	50	50.3	101	60-140	
1,4-Dichlorobenzene	ug/L	50	49.4	99	60-140	
2,2-Dichloropropane	ug/L	50	52.5	105	60-140	
2-Chlorotoluene	ug/L	50	49.8	100	60-140	
4-Chlorotoluene	ug/L	50	48.8	98	60-140	
Benzene	ug/L	50	56.1	112	60-140	
Bromobenzene	ug/L	50	50.6	101	60-140	
Bromochloromethane	ug/L	50	64.2	128	60-140	
Bromodichloromethane	ug/L	50	53.8	108	60-140	
Bromoform	ug/L	50	51.7	103	60-140	
Bromomethane	ug/L	50	47.5	95	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	49.8	100	60-140	
Chloroethane	ug/L	50	33.0	66	60-140	
Chloroform	ug/L	50	58.9	118	60-140	
Chloromethane	ug/L	50	46.5	93	60-140	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Dibromochloromethane	ug/L	50	51.2	102	60-140	
Dibromomethane	ug/L	50	61.7	123	60-140	
Dichlorodifluoromethane	ug/L	50	44.9	90	60-140	
Diisopropyl ether	ug/L	50	52.6	105	60-140	
Ethylbenzene	ug/L	50	47.6	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.9	98	60-140	
m&p-Xylene	ug/L	100	96.0	96	60-140	
Methyl-tert-butyl ether	ug/L	50	57.2	114	60-140	
Methylene Chloride	ug/L	50	56.4	113	60-140	
n-Butylbenzene	ug/L	50	47.5	95	60-140	
n-Propylbenzene	ug/L	50	48.0	96	60-140	
Naphthalene	ug/L	50	52.7	105	60-140	
o-Xylene	ug/L	50	49.8	100	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.0	100	60-140	
tert-Butylbenzene	ug/L	50	41.1	82	60-140	
Tetrachloroethene	ug/L	50	49.0	98	60-140	
Toluene	ug/L	50	55.4	111	60-140	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	56.4	113	60-140	
Trichlorofluoromethane	ug/L	50	46.5	93	60-140	
Vinyl chloride	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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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.: 92514760

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.5	103	108	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.6	25.8	123	129	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.3	104	107	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
1,1-Dichloroethane	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	25.0	26.3	125	132	60-140	5	
1,1-Dichloropropene	ug/L	ND	20	20	25.7	27.7	128	138	60-140	7	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.4	22.2	117	111	60-140	5	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.1	20.9	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	23.2	23.8	116	119	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.1	103	110	60-140	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.8	21.7	104	108	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20.0	21.5	100	108	60-140	7	
1,2-Dichloropropane	ug/L	ND	20	20	24.0	25.0	120	125	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.7	21.8	103	109	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.6	21.5	103	108	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20.8	21.9	104	109	60-140	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.2	102	106	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	25.2	26.7	126	134	60-140	6	
2-Chlorotoluene	ug/L	ND	20	20	20.6	22.0	103	110	60-140	7	
4-Chlorotoluene	ug/L	ND	20	20	19.8	20.8	99	104	60-140	5	
Benzene	ug/L	ND	20	20	23.8	24.8	119	124	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	22.0	103	110	60-140	6	
Bromochloromethane	ug/L	ND	20	20	25.9	27.3	129	136	60-140	5	
Bromodichloromethane	ug/L	ND	20	20	22.5	23.3	113	116	60-140	3	
Bromoform	ug/L	ND	20	20	20.7	21.6	103	108	60-140	4	
Bromomethane	ug/L	ND	20	20	22.5	23.2	113	116	60-140	3	
Carbon tetrachloride	ug/L	ND	20	20	23.0	23.9	115	119	60-140	4	
Chlorobenzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	5	
Chloroethane	ug/L	ND	20	20	19.0	20.1	95	101	60-140	6	
Chloroform	ug/L	ND	20	20	24.0	24.9	120	124	60-140	3	
Chloromethane	ug/L	ND	20	20	21.9	22.3	110	111	60-140	1	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.6	25.1	118	125	60-140	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	24.5	25.8	123	129	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.8	21.9	104	110	60-140	5	
Dibromomethane	ug/L	ND	20	20	25.1	26.1	126	131	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	21.4	101	107	60-140	6	
Diisopropyl ether	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6	
Ethylbenzene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.6	24.5	123	122	60-140	0	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.9	105	110	60-140	4	
m&p-Xylene	ug/L	ND	40	40	40.9	42.9	102	107	60-140	5	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	25.0	116	125	60-140	7	
Methylene Chloride	ug/L	ND	20	20	24.0	25.5	120	128	60-140	6	

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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.: 92514760

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3118844 3118845

Parameter	Units	92514747001 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	21.3	21.9	107	110	60-140	3	
n-Propylbenzene	ug/L	ND	20	20	20.7	21.6	103	108	60-140	5	
Naphthalene	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
o-Xylene	ug/L	ND	20	20	20.9	21.9	104	109	60-140	5	
sec-Butylbenzene	ug/L	ND	20	20	21.3	21.9	107	109	60-140	3	
Styrene	ug/L	ND	20	20	20.5	21.3	103	107	60-140	4	
tert-Butylbenzene	ug/L	ND	20	20	17.8	18.5	89	92	60-140	4	
Tetrachloroethene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
Toluene	ug/L	ND	20	20	24.1	25.2	121	126	60-140	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.0	26.5	125	133	60-140	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	24.0	117	120	60-140	3	
Trichloroethene	ug/L	ND	20	20	24.6	25.7	123	128	60-140	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.7	112	119	60-140	6	
Vinyl chloride	ug/L	ND	20	20	22.8	24.1	114	121	60-140	6	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 INCIDENT
Pace Project No.: 92514760

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514760001	**DUP-1**	MADEPV	1602057	MADEP VPH	1602057
92514760002	**FB-1**	MADEPV	1601656	MADEP VPH	1601656
92514760001	**DUP-1**	EPA 3010A	591105	EPA 6010D	591117
92514760002	**FB-1**	EPA 3010A	591105	EPA 6010D	591117
92514760001	**DUP-1**	SM 6200B	590757		
92514760002	**FB-1**	SM 6200B	590757		
92514760003	**TRIP BLANK**	SM 6200B	590757		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92514760

92514760

Workorder 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:
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	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: Lab Sample # / Comments
DUP-1	DW	G	1-5-21	-				8	X	X	X	92514760 001
FB-1	OT	G	↓	-				8	X	X	X	002
Trip Blank	OT	-	↓	-				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:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

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

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

Lab Tracking #: 2561306

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: T2004

Cooler 1 Temp Upon Receipt: 5.6 oC

Cooler 1 Therm Corr. Factor: -.1 oC

Cooler 1 Corrected Temp: 5.5 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	1-5-20 1350	MJ for Pace HVL	1-5-21 13:50
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

January 18, 2021

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

RE: Project: 2020-L1-2448
Pace Project No.: 92515541

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Angela 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
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

Pace Analytical Services, LLC
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(704)875-9092

CERTIFICATIONS

Project: 2020-L1-2448
Pace Project No.: 92515541

Pace Analytical Services National

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

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
Pace Project No.: 92515541

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515541001	**PW-72 (40-42)**	MADEP VPH	BMB	6	PAN
		EPA 8260D	SAS	70	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
		SM 2540G	KDW	1	PAN

PAN = Pace National - Mt. Juliet
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
Pace Project No.: 92515541

Sample: PW-72 (40-42) **Lab ID: 92515541001** Collected: 01/07/21 14:00 Received: 01/07/21 17:46 Matrix: 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)	ND	mg/kg	7.96	1.26	01/07/21 14:00	01/12/21 21:20		
Aliphatic (C09-C12)	ND	mg/kg	7.96	1.26	01/07/21 14:00	01/12/21 21:20		
Aromatic (C09-C10),Unadjusted	ND	mg/kg	7.96	1.26	01/07/21 14:00	01/12/21 21:20	TPHC9C10A	
Total VPH	ND	mg/kg	7.96	1.26	01/07/21 14:00	01/12/21 21:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.9	%	70.0-130	1.26	01/07/21 14:00	01/12/21 21:20	615-59-8FID	
2,5-Dibromotoluene (PID)	75.3	%	70.0-130	1.26	01/07/21 14:00	01/12/21 21:20	615-59-8PID	
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
Acetone	ND	ug/kg	139	1	01/08/21 15:46	01/08/21 23:00	67-64-1	
Benzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	71-43-2	
Bromobenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	108-86-1	
Bromochloromethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	74-97-5	
Bromodichloromethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	75-27-4	
Bromoform	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	75-25-2	
Bromomethane	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	74-83-9	IK
2-Butanone (MEK)	ND	ug/kg	139	1	01/08/21 15:46	01/08/21 23:00	78-93-3	
n-Butylbenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	56-23-5	
Chlorobenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	108-90-7	
Chloroethane	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	75-00-3	
Chloroform	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	67-66-3	
Chloromethane	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	96-12-8	
Dibromochloromethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	106-93-4	
Dibromomethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	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-L1-2448
Pace Project No.: 92515541

Sample: PW-72 (40-42) **Lab ID: 92515541001** Collected: 01/07/21 14:00 Received: 01/07/21 17:46 Matrix: 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
8260D/5035A/5030B Volatiles	Analytical Method: EPA 8260D Preparation Method: EPA 5035A/5030B Pace Analytical Services - Charlotte							
cis-1,3-Dichloropropene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	108-20-3	
Ethylbenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	87-68-3	
2-Hexanone	ND	ug/kg	69.5	1	01/08/21 15:46	01/08/21 23:00	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	99-87-6	
Methylene Chloride	ND	ug/kg	27.8	1	01/08/21 15:46	01/08/21 23:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	69.5	1	01/08/21 15:46	01/08/21 23:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	1634-04-4	
Naphthalene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	91-20-3	
n-Propylbenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	103-65-1	
Styrene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	79-34-5	
Tetrachloroethene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	127-18-4	
Toluene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	79-00-5	
Trichloroethene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	108-67-8	
Vinyl acetate	ND	ug/kg	69.5	1	01/08/21 15:46	01/08/21 23:00	108-05-4	
Vinyl chloride	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	75-01-4	
Xylene (Total)	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	1330-20-7	
m&p-Xylene	ND	ug/kg	13.9	1	01/08/21 15:46	01/08/21 23:00	179601-23-1	
o-Xylene	ND	ug/kg	7.0	1	01/08/21 15:46	01/08/21 23:00	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%	70-130	1	01/08/21 15:46	01/08/21 23:00	2037-26-5	
4-Bromofluorobenzene (S)	102	%	69-134	1	01/08/21 15:46	01/08/21 23:00	460-00-4	
1,2-Dichloroethane-d4 (S)	82	%	70-130	1	01/08/21 15:46	01/08/21 23:00	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Charlotte							
Percent Moisture	**13.1**	%	0.10	1		01/08/21 14:08		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet							
Total Solids	**87.2**	%		1	01/12/21 15:44	01/12/21 16:04		

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
Pace Project No.: 92515541

QC Batch: 1604678
QC Batch Method: MADEPV
Analysis Method: MADEP VPH
Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92515541001

METHOD BLANK: R3613253-3 Matrix: Solid
Associated Lab Samples: 92515541001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	mg/kg	ND	5.00	01/12/21 11:10	
Aliphatic (C09-C12)	mg/kg	ND	5.00	01/12/21 11:10	
Aromatic (C09-C10),Unadjusted	mg/kg	ND	5.00	01/12/21 11:10	
Total VPH	mg/kg	ND	5.00	01/12/21 11:10	
2,5-Dibromotoluene (FID)	%	92.1	70.0-130	01/12/21 11:10	
2,5-Dibromotoluene (PID)	%	77.6	70.0-130	01/12/21 11:10	

LABORATORY CONTROL SAMPLE & LCSD: R3613253-1 R3613253-2

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	60.9	71.5	102	119	70.0-130	16.0	25	
Aliphatic (C09-C12)	mg/kg	70.0	72.9	86.5	104	124	70.0-130	17.1	25	
Aromatic (C09-C10),Unadjusted	mg/kg	10.0	8.74	9.60	87.4	96.0	70.0-130	9.38	25	
Total VPH	mg/kg	140	143	168	102	120	70.0-130	16.1	25	
2,5-Dibromotoluene (FID)	%				93.5	101	70.0-130			
2,5-Dibromotoluene (PID)	%				79.3	85.6	70.0-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3613253-4 R3613253-5

Parameter	Units	L1304691-14 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	108	108	46.0	85.3	42.4	78.7	70.0-130	59.9	ML,R1
Aliphatic (C09-C12)	mg/kg	ND	126	126	70.1	142	55.4	112	70.0-130	67.5	ML,R1
Aromatic (C09-C10),Unadjusted	mg/kg	4.25	18.1	18.1	10.5	17.5	34.6	73.3	70.0-130	50.0	ML,R1
Total VPH	mg/kg	ND	253	253	127	244	50.1	96.6	70.0-130	63.4	ML,R1
2,5-Dibromotoluene (FID)	%						87.2	90.8	70.0-130		
2,5-Dibromotoluene (PID)	%						72.1	76.6	70.0-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92515541

QC Batch: 591624
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8260D
Analysis Description: 8260D 5035A 5030B
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515541001

METHOD BLANK: 3123603 Matrix: Solid
Associated Lab Samples: 92515541001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	01/08/21 22:06	
1,1,1-Trichloroethane	ug/kg	ND	5.0	01/08/21 22:06	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	01/08/21 22:06	
1,1,2-Trichloroethane	ug/kg	ND	5.0	01/08/21 22:06	
1,1-Dichloroethane	ug/kg	ND	5.0	01/08/21 22:06	
1,1-Dichloroethene	ug/kg	ND	5.0	01/08/21 22:06	
1,1-Dichloropropene	ug/kg	ND	5.0	01/08/21 22:06	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	01/08/21 22:06	
1,2,3-Trichloropropane	ug/kg	ND	5.0	01/08/21 22:06	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	01/08/21 22:06	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	01/08/21 22:06	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	01/08/21 22:06	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	01/08/21 22:06	
1,2-Dichlorobenzene	ug/kg	ND	5.0	01/08/21 22:06	
1,2-Dichloroethane	ug/kg	ND	5.0	01/08/21 22:06	
1,2-Dichloropropane	ug/kg	ND	5.0	01/08/21 22:06	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	01/08/21 22:06	
1,3-Dichlorobenzene	ug/kg	ND	5.0	01/08/21 22:06	
1,3-Dichloropropane	ug/kg	ND	5.0	01/08/21 22:06	
1,4-Dichlorobenzene	ug/kg	ND	5.0	01/08/21 22:06	
2,2-Dichloropropane	ug/kg	ND	5.0	01/08/21 22:06	
2-Butanone (MEK)	ug/kg	ND	100	01/08/21 22:06	
2-Chlorotoluene	ug/kg	ND	5.0	01/08/21 22:06	
2-Hexanone	ug/kg	ND	50.0	01/08/21 22:06	
4-Chlorotoluene	ug/kg	ND	5.0	01/08/21 22:06	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.0	01/08/21 22:06	
Acetone	ug/kg	ND	100	01/08/21 22:06	
Benzene	ug/kg	ND	5.0	01/08/21 22:06	
Bromobenzene	ug/kg	ND	5.0	01/08/21 22:06	
Bromochloromethane	ug/kg	ND	5.0	01/08/21 22:06	
Bromodichloromethane	ug/kg	ND	5.0	01/08/21 22:06	
Bromoform	ug/kg	ND	5.0	01/08/21 22:06	
Bromomethane	ug/kg	ND	10.0	01/08/21 22:06	IK
Carbon tetrachloride	ug/kg	ND	5.0	01/08/21 22:06	
Chlorobenzene	ug/kg	ND	5.0	01/08/21 22:06	
Chloroethane	ug/kg	ND	10.0	01/08/21 22:06	
Chloroform	ug/kg	ND	5.0	01/08/21 22:06	
Chloromethane	ug/kg	ND	10.0	01/08/21 22:06	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	01/08/21 22:06	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	01/08/21 22:06	

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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
Pace Project No.: 92515541

METHOD BLANK: 3123603 Matrix: Solid
Associated Lab Samples: 92515541001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	ND	5.0	01/08/21 22:06	
Dibromomethane	ug/kg	ND	5.0	01/08/21 22:06	
Dichlorodifluoromethane	ug/kg	ND	10.0	01/08/21 22:06	
Diisopropyl ether	ug/kg	ND	5.0	01/08/21 22:06	
Ethylbenzene	ug/kg	ND	5.0	01/08/21 22:06	
Hexachloro-1,3-butadiene	ug/kg	ND	10.0	01/08/21 22:06	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	01/08/21 22:06	
m&p-Xylene	ug/kg	ND	10.0	01/08/21 22:06	
Methyl-tert-butyl ether	ug/kg	ND	5.0	01/08/21 22:06	
Methylene Chloride	ug/kg	ND	20.0	01/08/21 22:06	
n-Butylbenzene	ug/kg	ND	5.0	01/08/21 22:06	
n-Propylbenzene	ug/kg	ND	5.0	01/08/21 22:06	
Naphthalene	ug/kg	ND	5.0	01/08/21 22:06	
o-Xylene	ug/kg	ND	5.0	01/08/21 22:06	
p-Isopropyltoluene	ug/kg	ND	5.0	01/08/21 22:06	
sec-Butylbenzene	ug/kg	ND	5.0	01/08/21 22:06	
Styrene	ug/kg	ND	5.0	01/08/21 22:06	
tert-Butylbenzene	ug/kg	ND	5.0	01/08/21 22:06	
Tetrachloroethene	ug/kg	ND	5.0	01/08/21 22:06	
Toluene	ug/kg	ND	5.0	01/08/21 22:06	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	01/08/21 22:06	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	01/08/21 22:06	
Trichloroethene	ug/kg	ND	5.0	01/08/21 22:06	
Trichlorofluoromethane	ug/kg	ND	5.0	01/08/21 22:06	
Vinyl acetate	ug/kg	ND	50.0	01/08/21 22:06	
Vinyl chloride	ug/kg	ND	10.0	01/08/21 22:06	
Xylene (Total)	ug/kg	ND	10.0	01/08/21 22:06	
1,2-Dichloroethane-d4 (S)	%	85	70-130	01/08/21 22:06	
4-Bromofluorobenzene (S)	%	101	69-134	01/08/21 22:06	
Toluene-d8 (S)	%	96	70-130	01/08/21 22:06	

LABORATORY CONTROL SAMPLE: 3123604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	1250	1280	103	70-130	
1,1,1-Trichloroethane	ug/kg	1250	1090	87	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	1250	1280	103	70-130	
1,1,2-Trichloroethane	ug/kg	1250	1230	98	70-130	
1,1-Dichloroethane	ug/kg	1250	1120	89	70-130	
1,1-Dichloroethene	ug/kg	1250	1240	99	70-130	
1,1-Dichloropropene	ug/kg	1250	1130	91	70-130	
1,2,3-Trichlorobenzene	ug/kg	1250	1370	109	65-130	
1,2,3-Trichloropropane	ug/kg	1250	1280	102	70-130	
1,2,4-Trichlorobenzene	ug/kg	1250	1290	104	68-130	

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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
Pace Project No.: 92515541

LABORATORY CONTROL SAMPLE: 3123604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1250	1230	98	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	1250	1320	105	70-130	
1,2-Dibromoethane (EDB)	ug/kg	1250	1310	105	70-130	
1,2-Dichlorobenzene	ug/kg	1250	1240	100	70-130	
1,2-Dichloroethane	ug/kg	1250	1060	85	63-130	
1,2-Dichloropropane	ug/kg	1250	1210	96	70-130	
1,3,5-Trimethylbenzene	ug/kg	1250	1250	100	70-130	
1,3-Dichlorobenzene	ug/kg	1250	1200	96	70-130	
1,3-Dichloropropane	ug/kg	1250	1300	104	70-130	
1,4-Dichlorobenzene	ug/kg	1250	1240	99	70-130	
2,2-Dichloropropane	ug/kg	1250	1080	86	66-130	
2-Butanone (MEK)	ug/kg	2500	2150	86	70-130	
2-Chlorotoluene	ug/kg	1250	1280	102	70-130	
2-Hexanone	ug/kg	2500	2610	105	70-130	
4-Chlorotoluene	ug/kg	1250	1250	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	2500	2460	98	70-130	
Acetone	ug/kg	2500	2170	87	69-130	
Benzene	ug/kg	1250	1240	99	70-130	
Bromobenzene	ug/kg	1250	1270	102	70-130	
Bromochloromethane	ug/kg	1250	1070	86	70-130	
Bromodichloromethane	ug/kg	1250	1140	91	69-130	
Bromoform	ug/kg	1250	1340	107	70-130	
Bromomethane	ug/kg	1250	1030	83	52-130	IK
Carbon tetrachloride	ug/kg	1250	1310	105	70-130	
Chlorobenzene	ug/kg	1250	1260	101	70-130	
Chloroethane	ug/kg	1250	1100	88	65-130	
Chloroform	ug/kg	1250	1090	87	70-130	
Chloromethane	ug/kg	1250	992	79	55-130	
cis-1,2-Dichloroethene	ug/kg	1250	1070	86	70-130	
cis-1,3-Dichloropropene	ug/kg	1250	1280	103	70-130	
Dibromochloromethane	ug/kg	1250	1330	107	70-130	
Dibromomethane	ug/kg	1250	1340	107	70-130	
Dichlorodifluoromethane	ug/kg	1250	1220	97	45-156	
Diisopropyl ether	ug/kg	1250	1000	80	70-130	
Ethylbenzene	ug/kg	1250	1200	96	70-130	
Hexachloro-1,3-butadiene	ug/kg	1250	1290	103	66-130	
Isopropylbenzene (Cumene)	ug/kg	1250	1300	104	70-130	
m&p-Xylene	ug/kg	2500	2560	103	70-130	
Methyl-tert-butyl ether	ug/kg	1250	1060	85	70-130	
Methylene Chloride	ug/kg	1250	1050	84	65-130	
n-Butylbenzene	ug/kg	1250	1200	96	67-130	
n-Propylbenzene	ug/kg	1250	1250	100	70-130	
Naphthalene	ug/kg	1250	1330	107	70-130	
o-Xylene	ug/kg	1250	1280	102	70-130	
p-Isopropyltoluene	ug/kg	1250	1210	97	67-130	
sec-Butylbenzene	ug/kg	1250	1230	98	69-130	
Styrene	ug/kg	1250	1390	111	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92515541

LABORATORY CONTROL SAMPLE: 3123604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	1250	1220	97	67-130	
Tetrachloroethene	ug/kg	1250	1340	107	70-130	
Toluene	ug/kg	1250	1240	99	70-130	
trans-1,2-Dichloroethene	ug/kg	1250	1150	92	70-130	
trans-1,3-Dichloropropene	ug/kg	1250	1230	98	68-130	
Trichloroethene	ug/kg	1250	1320	106	70-130	
Trichlorofluoromethane	ug/kg	1250	1110	89	70-130	
Vinyl acetate	ug/kg	2500	2390	96	70-130	
Vinyl chloride	ug/kg	1250	1050	84	61-130	
Xylene (Total)	ug/kg	3750	3850	103	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			103	69-134	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 3123606

Parameter	Units	92515541001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	695	645	93	70-131	
1,1,1-Trichloroethane	ug/kg	ND	695	577	83	65-133	
1,1,2,2-Tetrachloroethane	ug/kg	ND	695	624	90	66-130	
1,1,2-Trichloroethane	ug/kg	ND	695	660	95	66-133	
1,1-Dichloroethane	ug/kg	ND	695	571	82	65-130	
1,1-Dichloroethene	ug/kg	ND	695	630	91	10-158	
1,1-Dichloropropene	ug/kg	ND	695	608	87	68-133	
1,2,3-Trichlorobenzene	ug/kg	ND	695	730	105	27-138	
1,2,3-Trichloropropane	ug/kg	ND	695	611	88	67-130	
1,2,4-Trichlorobenzene	ug/kg	ND	695	726	104	51-134	
1,2,4-Trimethylbenzene	ug/kg	ND	695	778	112	63-136	
1,2-Dibromo-3-chloropropane	ug/kg	ND	695	602	87	32-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	695	637	92	70-130	
1,2-Dichlorobenzene	ug/kg	ND	695	684	98	69-130	
1,2-Dichloroethane	ug/kg	ND	695	543	78	59-130	
1,2-Dichloropropane	ug/kg	ND	695	647	93	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	695	716	103	65-137	
1,3-Dichlorobenzene	ug/kg	ND	695	671	97	70-130	
1,3-Dichloropropane	ug/kg	ND	695	648	93	70-130	
1,4-Dichlorobenzene	ug/kg	ND	695	659	95	68-130	
2,2-Dichloropropane	ug/kg	ND	695	536	77	32-130	
2-Butanone (MEK)	ug/kg	ND	1390	993	71	10-136	
2-Chlorotoluene	ug/kg	ND	695	710	102	69-141	
2-Hexanone	ug/kg	ND	1390	1110	80	10-144	
4-Chlorotoluene	ug/kg	ND	695	690	99	70-132	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	1390	1190	86	25-143	
Acetone	ug/kg	ND	1390	787	57	10-130	
Benzene	ug/kg	ND	695	688	99	67-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448
Pace Project No.: 92515541

MATRIX SPIKE SAMPLE: 3123606

Parameter	Units	92515541001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromobenzene	ug/kg	ND	695	666	96	70-130	
Bromochloromethane	ug/kg	ND	695	533	77	69-134	
Bromodichloromethane	ug/kg	ND	695	595	86	64-130	
Bromoform	ug/kg	ND	695	631	91	62-130	
Bromomethane	ug/kg	ND	695	506	73	20-176	IK
Carbon tetrachloride	ug/kg	ND	695	675	97	65-140	
Chlorobenzene	ug/kg	ND	695	656	94	70-130	
Chloroethane	ug/kg	ND	695	133	19	10-130	
Chloroform	ug/kg	ND	695	561	81	63-130	
Chloromethane	ug/kg	ND	695	599	86	58-130	
cis-1,2-Dichloroethene	ug/kg	ND	695	554	80	66-130	
cis-1,3-Dichloropropene	ug/kg	ND	695	661	95	67-130	
Dibromochloromethane	ug/kg	ND	695	634	91	67-130	
Dibromomethane	ug/kg	ND	695	677	97	63-131	
Dichlorodifluoromethane	ug/kg	ND	695	680	98	44-180	
Diisopropyl ether	ug/kg	ND	695	506	73	63-130	
Ethylbenzene	ug/kg	ND	695	656	94	66-130	
Hexachloro-1,3-butadiene	ug/kg	ND	695	762	110	64-150	
Isopropylbenzene (Cumene)	ug/kg	ND	695	708	102	69-135	
m&p-Xylene	ug/kg	ND	1390	1500	108	60-133	
Methyl-tert-butyl ether	ug/kg	ND	695	540	78	65-130	
Methylene Chloride	ug/kg	ND	695	529	76	61-130	
n-Butylbenzene	ug/kg	ND	695	703	101	65-140	
n-Propylbenzene	ug/kg	ND	695	717	103	67-140	
Naphthalene	ug/kg	ND	695	657	94	15-145	
o-Xylene	ug/kg	ND	695	709	102	66-133	
p-Isopropyltoluene	ug/kg	ND	695	711	102	56-147	
sec-Butylbenzene	ug/kg	ND	695	732	105	65-139	
Styrene	ug/kg	ND	695	701	101	70-132	
tert-Butylbenzene	ug/kg	ND	695	699	101	62-135	
Tetrachloroethene	ug/kg	ND	695	726	104	70-135	
Toluene	ug/kg	ND	695	681	98	67-130	
trans-1,2-Dichloroethene	ug/kg	ND	695	605	87	69-130	
trans-1,3-Dichloropropene	ug/kg	ND	695	646	93	62-130	
Trichloroethene	ug/kg	ND	695	717	103	70-135	
Trichlorofluoromethane	ug/kg	ND	695	186	27	10-130	
Vinyl acetate	ug/kg	ND	1390	1100	79	53-130	
Vinyl chloride	ug/kg	ND	695	616	89	61-148	
Xylene (Total)	ug/kg	ND	2080	2210	106	63-132	
1,2-Dichloroethane-d4 (S)	%				93	70-130	
4-Bromofluorobenzene (S)	%				100	69-134	
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-L1-2448
Pace Project No.: 92515541

SAMPLE DUPLICATE: 3123605

Parameter	Units	92515262002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	3.8J		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		IK
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	3.6J		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		

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

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
Pace Project No.: 92515541

SAMPLE DUPLICATE: 3123605

Parameter	Units	92515262002 Result	Dup Result	RPD	Qualifiers
m&p-Xylene	ug/kg	ND	6.4J		
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	6.7	7.7	14	
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	84	85		
4-Bromofluorobenzene (S)	%	103	103		
Toluene-d8 (S)	%	98	98		

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

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
Pace Project No.: 92515541

QC Batch: 591593
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515541001

SAMPLE DUPLICATE: 3123285

Parameter	Units	92515535001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	7.1	7.7	7	

SAMPLE DUPLICATE: 3123292

Parameter	Units	92515535011 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	9.8	10.9	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: 2020-L1-2448
Pace Project No.: 92515541

QC Batch: 1604227
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: 92515541001

METHOD BLANK: R3612095-1 Matrix: Solid
Associated Lab Samples: 92515541001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	%	0.00200		01/12/21 16:04	

LABORATORY CONTROL SAMPLE: R3612095-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	49.9	99.9	85.0-115	

SAMPLE DUPLICATE: R3612095-3

Parameter	Units	L1304612-06 Result	Dup Result	RPD	Qualifiers
Total Solids	%	80.2	80.5	0.371	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to 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
Pace Project No.: 92515541

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

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

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
Pace Project No.: 92515541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515541001	**PW-72 (40-42)**	MADEPV	1604678	MADEP VPH	1604678
92515541001	**PW-72 (40-42)**	EPA 5035A/5030B	591624	EPA 8260D	591627
92515541001	**PW-72 (40-42)**	ASTM D2974-87	591593		
92515541001	**PW-72 (40-42)**	SM 2540 G	1604227	SM 2540G	1604227

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ... umber or

WO# : 92515541

92515541

Company: APEX Companies LLC

Address: 5900 Northwoods Business Pkwy Charlotte, NC 28269

Billing Information:

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: ~~EPC 20126~~ 2020-L1-2448

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

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Kyle Prock

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required: Standard

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)

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	MADEP VPH	VOC 8260	Lab Sample # / Comments
PW-72 (40-42)	SL	G	01/07		1/7/21	1400		6	X	X	92515541 001

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	NA
Custody Signatures Present	NA
Collector Signature Present	Y
Bottles Intact	Y
Correct Bottles	Y
Sufficient Volume	Y
Samples Received on Ice	Y
VOA - Headspace Acceptable	NA
USDA Regulated Soils	N
Samples in Holding Time	Y
Residual Chlorine Present	NA
Cl Strips:	
Sample pH Acceptable	NA
pH Strips:	
Sulfide Present	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 #: 2615476

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: 5.1 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.0 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / APEX	1/7/21 5:20pm	[signature] / Apex	01/07/21 1720
[signature] / Apex	01/07/21 1746	[signature] PACE LLC	1/7/21 1746

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#: 92515541

PM: AMB Due Date: 01/14/21

CLIENT: 92-APEX MOOR

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

January 18, 2021

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

RE: Project: CPC 20126
Pace Project No.: 92515755

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace 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
Michael Verdon, 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: CPC 20126
Pace Project No.: 92515755

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: CPC 20126
Pace Project No.: 92515755

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515755001	**EB-1-20210109**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515755002	**FB-1-20210109**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515755003	**MW-25D (125-139)**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515755004	**DUP-1-20210109**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92515755005	**Trip Blank**	SM 6200B	PM1	63	PASI-C

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

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

ANALYTICAL RESULTS

Project: CPC 20126
Pace Project No.: 92515755

Sample: EB-1-20210109 **Lab ID: 92515755001** Collected: 01/09/21 14:00 Received: 01/11/21 08:00 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	01/13/21 18:46	01/13/21 18:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 18:46	01/13/21 18:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 18:46	01/13/21 18:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/13/21 18:46	01/13/21 18:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.4	%	70.0-130	1	01/13/21 18:46	01/13/21 18:46	615-59-8FID	
2,5-Dibromotoluene (PID)	79.8	%	70.0-130	1	01/13/21 18:46	01/13/21 18:46	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**9.2**	ug/L	5.0	1	01/13/21 01:55	01/14/21 07:55	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 11:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 11:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 11:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 11:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 11:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 11:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 11:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 11:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 11:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 11:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 11:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 11:37	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 11:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 11:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 11:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 11:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 11:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 11:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 11:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 11:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 11:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 11:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 11:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 11:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 11:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 11:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 11:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 11:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 11:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 11:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 11:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 11:37	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: CPC 20126
Pace Project No.: 92515755

Sample: EB-1-20210109 **Lab ID: 92515755001** Collected: 01/09/21 14:00 Received: 01/11/21 08:00 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		01/12/21 11:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 11:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 11:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 11:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 11:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 11:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 11:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 11:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 11:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 11:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 11:37	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 11:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 11:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 11:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 11:37	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 11:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 11:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 11:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 11:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 11:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 11:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 11:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 11:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 11:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 11:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 11:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 11:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 11:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		01/12/21 11:37	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/12/21 11:37	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/12/21 11:37	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: CPC 20126
Pace Project No.: 92515755

Sample: FB-1-20210109 **Lab ID: 92515755002** Collected: 01/09/21 14:15 Received: 01/11/21 08:00 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	01/13/21 19:19	01/13/21 19:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 19:19	01/13/21 19:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 19:19	01/13/21 19:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/13/21 19:19	01/13/21 19:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/13/21 19:19	01/13/21 19:19	615-59-8FID	
2,5-Dibromotoluene (PID)	82.5	%	70.0-130	1	01/13/21 19:19	01/13/21 19:19	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	01/13/21 01:55	01/14/21 07:58	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 11:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 11:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 11:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 11:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 11:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 11:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 11:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 11:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 11:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 11:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 11:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 11:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 11:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 11:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 11:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 11:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 11:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 11:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 11:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 11:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 11:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 11:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 11:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 11:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 11:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 11:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 11:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 11:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 11:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 11:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 11:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 11:55	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: CPC 20126
Pace Project No.: 92515755

Sample: FB-1-20210109 **Lab ID: 92515755002** Collected: 01/09/21 14:15 Received: 01/11/21 08:00 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		01/12/21 11:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 11:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 11:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 11:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 11:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 11:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 11:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 11:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 11:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 11:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 11:55	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 11:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 11:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 11:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 11:55	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 11:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 11:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 11:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 11:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 11:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 11:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 11:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 11:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 11:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 11:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 11:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 11:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 11:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/12/21 11:55	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/12/21 11:55	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/12/21 11:55	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: CPC 20126
Pace Project No.: 92515755

Sample: MW-25D (125-139) **Lab ID: 92515755003** Collected: 01/09/21 16:00 Received: 01/11/21 08:00 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	01/13/21 19:52	01/13/21 19:52		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 19:52	01/13/21 19:52		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 19:52	01/13/21 19:52	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/13/21 19:52	01/13/21 19:52	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.3	%	70.0-130	1	01/13/21 19:52	01/13/21 19:52	615-59-8FID	
2,5-Dibromotoluene (PID)	80.1	%	70.0-130	1	01/13/21 19:52	01/13/21 19:52	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**5.1**	ug/L	5.0	1	01/13/21 01:55	01/14/21 08:08	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 14:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 14:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 14:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 14:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 14:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 14:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 14:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 14:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 14:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 14:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 14:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 14:01	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 14:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 14:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 14:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 14:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 14:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 14:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 14:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 14:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 14:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 14:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 14:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 14:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 14:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 14:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 14:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 14:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 14:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 14:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 14:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 14:01	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: CPC 20126
Pace Project No.: 92515755

Sample: MW-25D (125-139) **Lab ID: 92515755003** Collected: 01/09/21 16:00 Received: 01/11/21 08:00 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		01/12/21 14:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 14:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 14:01	10061-02-6	
Diisopropyl ether	**1.2**	ug/L	0.50	1		01/12/21 14:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 14:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 14:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 14:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 14:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 14:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 14:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 14:01	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 14:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 14:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 14:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 14:01	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 14:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 14:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 14:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 14:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 14:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 14:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 14:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 14:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 14:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 14:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 14:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 14:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 14:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/12/21 14:01	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		01/12/21 14:01	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/12/21 14:01	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: CPC 20126
Pace Project No.: 92515755

Sample: DUP-1-20210109 **Lab ID: 92515755004** Collected: 01/09/21 16:15 Received: 01/11/21 08:00 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	01/13/21 20:26	01/13/21 20:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 20:26	01/13/21 20:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 20:26	01/13/21 20:26	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/13/21 20:26	01/13/21 20:26	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/13/21 20:26	01/13/21 20:26	615-59-8FID	
2,5-Dibromotoluene (PID)	82.7	%	70.0-130	1	01/13/21 20:26	01/13/21 20:26	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	01/13/21 01:55	01/14/21 08:11	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 14:19	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 14:19	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 14:19	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 14:19	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 14:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 14:19	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 14:19	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 14:19	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 14:19	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 14:19	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 14:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 14:19	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 14:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 14:19	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 14:19	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 14:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 14:19	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 14:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 14:19	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 14:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 14:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 14:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 14:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 14:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 14:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 14:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 14:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 14:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 14:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 14:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 14:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 14:19	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: CPC 20126
Pace Project No.: 92515755

Sample: DUP-1-20210109 **Lab ID: 92515755004** Collected: 01/09/21 16:15 Received: 01/11/21 08:00 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		01/12/21 14:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 14:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 14:19	10061-02-6	
Diisopropyl ether	**1.2**	ug/L	0.50	1		01/12/21 14:19	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 14:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 14:19	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 14:19	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 14:19	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 14:19	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 14:19	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 14:19	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 14:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 14:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 14:19	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 14:19	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 14:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 14:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 14:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 14:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 14:19	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 14:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 14:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 14:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 14:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 14:19	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 14:19	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 14:19	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 14:19	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/12/21 14:19	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/12/21 14:19	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/12/21 14:19	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: CPC 20126
Pace Project No.: 92515755

Sample: Trip Blank **Lab ID: 92515755005** Collected: 01/09/21 00:00 Received: 01/11/21 08:00 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		01/12/21 22:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 22:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 22:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 22:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 22:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 22:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 22:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 22:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 22:02	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 22:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 22:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 22:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 22:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 22:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 22:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 22:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 22:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 22:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 22:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 22:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 22:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 22:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 22:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 22:02	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 22:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:02	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: CPC 20126
Pace Project No.: 92515755

Sample: Trip Blank **Lab ID: 92515755005** Collected: 01/09/21 00:00 Received: 01/11/21 08:00 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		01/12/21 22:02	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 22:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 22:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 22:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 22:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 22:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 22:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 22:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/12/21 22:02	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		01/12/21 22:02	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/12/21 22:02	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: CPC 20126
Pace Project No.: 92515755

QC Batch: 1605066 Analysis Method: MADEP VPH
QC Batch Method: MADEPV Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515755001, 92515755002, 92515755003, 92515755004

METHOD BLANK: R3613254-3 Matrix: Water
Associated Lab Samples: 92515755001, 92515755002, 92515755003, 92515755004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)		ND		01/13/21 15:27	
Aliphatic (C09-C12)		ND		01/13/21 15:27	
Aromatic (C09-C10),Unadjusted		ND		01/13/21 15:27	
Total VPH		ND		01/13/21 15:27	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	01/13/21 15:27	
2,5-Dibromotoluene (PID)	%	70.8	70.0-130	01/13/21 15:27	

LABORATORY CONTROL SAMPLE & LCSD: R3613254-1 R3613254-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)		1.20	ND	ND	113	113	70.0-130	0.00	25	
Aliphatic (C09-C12)		1.40	ND	ND	105	106	70.0-130	0.678	25	
Aromatic (C09-C10),Unadjusted		0.200	ND	ND	83.5	83.0	70.0-130	0.601	25	
Total VPH		2.80	ND	ND	107	107	70.0-130	0.334	25	
2,5-Dibromotoluene (FID)	%				99.9	98.4	70.0-130			
2,5-Dibromotoluene (PID)	%				84.0	81.3	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: CPC 20126
Pace Project No.: 92515755

QC Batch: 592279
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515755001, 92515755002, 92515755003, 92515755004

METHOD BLANK: 3126586 Matrix: Water
Associated Lab Samples: 92515755001, 92515755002, 92515755003, 92515755004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/14/21 07:48	

LABORATORY CONTROL SAMPLE: 3126587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3126588 3126589

Parameter	Units	92515827007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	507	506	101	101	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: CPC 20126
Pace Project No.: 92515755

QC Batch: 592070 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515755001, 92515755002, 92515755003, 92515755004

METHOD BLANK: 3125380 Matrix: Water
Associated Lab Samples: 92515755001, 92515755002, 92515755003, 92515755004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1-Dichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,1-Dichloroethene	ug/L	ND	0.50	01/12/21 11:19	
1,1-Dichloropropene	ug/L	ND	0.50	01/12/21 11:19	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/12/21 11:19	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/12/21 11:19	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/12/21 11:19	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/12/21 11:19	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dichloroethane	ug/L	ND	0.50	01/12/21 11:19	
1,2-Dichloropropane	ug/L	ND	0.50	01/12/21 11:19	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/12/21 11:19	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
1,3-Dichloropropane	ug/L	ND	0.50	01/12/21 11:19	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
2,2-Dichloropropane	ug/L	ND	0.50	01/12/21 11:19	
2-Chlorotoluene	ug/L	ND	0.50	01/12/21 11:19	
4-Chlorotoluene	ug/L	ND	0.50	01/12/21 11:19	
Benzene	ug/L	ND	0.50	01/12/21 11:19	
Bromobenzene	ug/L	ND	0.50	01/12/21 11:19	
Bromochloromethane	ug/L	ND	0.50	01/12/21 11:19	
Bromodichloromethane	ug/L	ND	0.50	01/12/21 11:19	
Bromoform	ug/L	ND	0.50	01/12/21 11:19	
Bromomethane	ug/L	ND	5.0	01/12/21 11:19	
Carbon tetrachloride	ug/L	ND	0.50	01/12/21 11:19	
Chlorobenzene	ug/L	ND	0.50	01/12/21 11:19	
Chloroethane	ug/L	ND	1.0	01/12/21 11:19	
Chloroform	ug/L	ND	0.50	01/12/21 11:19	
Chloromethane	ug/L	ND	1.0	01/12/21 11:19	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 11:19	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 11:19	
Dibromochloromethane	ug/L	ND	0.50	01/12/21 11:19	
Dibromomethane	ug/L	ND	0.50	01/12/21 11:19	
Dichlorodifluoromethane	ug/L	ND	0.50	01/12/21 11:19	
Diisopropyl ether	ug/L	ND	0.50	01/12/21 11:19	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CPC 20126
Pace Project No.: 92515755

METHOD BLANK: 3125380 Matrix: Water
Associated Lab Samples: 92515755001, 92515755002, 92515755003, 92515755004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/12/21 11:19	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/12/21 11:19	
m&p-Xylene	ug/L	ND	1.0	01/12/21 11:19	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/12/21 11:19	
Methylene Chloride	ug/L	ND	2.0	01/12/21 11:19	
n-Butylbenzene	ug/L	ND	0.50	01/12/21 11:19	
n-Propylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Naphthalene	ug/L	ND	2.0	01/12/21 11:19	
o-Xylene	ug/L	ND	0.50	01/12/21 11:19	
sec-Butylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Styrene	ug/L	ND	0.50	01/12/21 11:19	
tert-Butylbenzene	ug/L	ND	0.50	01/12/21 11:19	
Tetrachloroethene	ug/L	ND	0.50	01/12/21 11:19	
Toluene	ug/L	ND	0.50	01/12/21 11:19	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 11:19	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 11:19	
Trichloroethene	ug/L	ND	0.50	01/12/21 11:19	
Trichlorofluoromethane	ug/L	ND	1.0	01/12/21 11:19	
Vinyl chloride	ug/L	ND	1.0	01/12/21 11:19	
1,2-Dichloroethane-d4 (S)	%	100	70-130	01/12/21 11:19	
4-Bromofluorobenzene (S)	%	97	70-130	01/12/21 11:19	
Toluene-d8 (S)	%	100	70-130	01/12/21 11:19	

LABORATORY CONTROL SAMPLE: 3125381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.8	110	60-140	
1,1,1-Trichloroethane	ug/L	50	52.6	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	55.7	111	60-140	
1,1,2-Trichloroethane	ug/L	50	55.0	110	60-140	
1,1-Dichloroethane	ug/L	50	52.1	104	60-140	
1,1-Dichloroethene	ug/L	50	54.6	109	60-140	
1,1-Dichloropropene	ug/L	50	53.0	106	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.7	107	60-140	
1,2,3-Trichloropropane	ug/L	50	53.7	107	60-140	
1,2,4-Trichlorobenzene	ug/L	50	55.5	111	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.9	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	59.5	119	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	57.2	114	60-140	
1,2-Dichlorobenzene	ug/L	50	52.9	106	60-140	
1,2-Dichloroethane	ug/L	50	52.8	106	60-140	
1,2-Dichloropropane	ug/L	50	53.6	107	60-140	
1,3,5-Trimethylbenzene	ug/L	50	55.8	112	60-140	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CPC 20126
Pace Project No.: 92515755

LABORATORY CONTROL SAMPLE: 3125381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	56.0	112	60-140	
1,3-Dichloropropane	ug/L	50	56.3	113	60-140	
1,4-Dichlorobenzene	ug/L	50	52.2	104	60-140	
2,2-Dichloropropane	ug/L	50	58.5	117	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	55.8	112	60-140	
Benzene	ug/L	50	50.2	100	60-140	
Bromobenzene	ug/L	50	52.0	104	60-140	
Bromochloromethane	ug/L	50	56.4	113	60-140	
Bromodichloromethane	ug/L	50	51.3	103	60-140	
Bromoform	ug/L	50	58.5	117	60-140	
Bromomethane	ug/L	50	41.1	82	60-140	
Carbon tetrachloride	ug/L	50	51.6	103	60-140	
Chlorobenzene	ug/L	50	52.7	105	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.3	101	60-140	
Chloromethane	ug/L	50	43.4	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
cis-1,3-Dichloropropene	ug/L	50	58.5	117	60-140	
Dibromochloromethane	ug/L	50	59.5	119	60-140	
Dibromomethane	ug/L	50	56.5	113	60-140	
Dichlorodifluoromethane	ug/L	50	51.2	102	60-140	
Diisopropyl ether	ug/L	50	50.8	102	60-140	
Ethylbenzene	ug/L	50	54.9	110	60-140	
Hexachloro-1,3-butadiene	ug/L	50	57.0	114	60-140	
Isopropylbenzene (Cumene)	ug/L	50	55.2	110	60-140	
m&p-Xylene	ug/L	100	112	112	60-140	
Methyl-tert-butyl ether	ug/L	50	53.4	107	60-140	
Methylene Chloride	ug/L	50	50.5	101	60-140	
n-Butylbenzene	ug/L	50	57.0	114	60-140	
n-Propylbenzene	ug/L	50	56.0	112	60-140	
Naphthalene	ug/L	50	54.9	110	60-140	
o-Xylene	ug/L	50	51.6	103	60-140	
sec-Butylbenzene	ug/L	50	55.7	111	60-140	
Styrene	ug/L	50	55.1	110	60-140	
tert-Butylbenzene	ug/L	50	46.1	92	60-140	
Tetrachloroethene	ug/L	50	54.3	109	60-140	
Toluene	ug/L	50	53.3	107	60-140	
trans-1,2-Dichloroethene	ug/L	50	55.6	111	60-140	
trans-1,3-Dichloropropene	ug/L	50	58.2	116	60-140	
Trichloroethene	ug/L	50	54.0	108	60-140	
Trichlorofluoromethane	ug/L	50	45.4	91	60-140	
Vinyl chloride	ug/L	50	48.9	98	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CPC 20126
Pace Project No.: 92515755

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125382 3125383

Parameter	Units	92515281017 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	80	80	93.7	96.7	117	121	60-140	3	
1,1,1-Trichloroethane	ug/L	ND	80	80	95.0	91.3	119	114	60-140	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	80	80	93.5	93.6	117	117	60-140	0	
1,1,2-Trichloroethane	ug/L	ND	80	80	93.5	93.1	117	116	60-140	0	
1,1-Dichloroethane	ug/L	ND	80	80	91.9	92.3	115	115	60-140	0	
1,1-Dichloroethene	ug/L	ND	80	80	104	104	129	130	60-140	0	
1,1-Dichloropropene	ug/L	ND	80	80	97.0	98.5	121	123	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	80	80	84.6	93.2	106	117	60-140	10	
1,2,3-Trichloropropane	ug/L	ND	80	80	90.0	90.0	112	112	60-140	0	
1,2,4-Trichlorobenzene	ug/L	ND	80	80	86.3	94.5	108	118	60-140	9	
1,2,4-Trimethylbenzene	ug/L	30.1	80	80	125	131	118	126	60-140	5	
1,2-Dibromo-3-chloropropane	ug/L	ND	80	80	96.0	101	120	126	60-140	5	
1,2-Dibromoethane (EDB)	ug/L	ND	80	80	96.5	97.6	121	122	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	80	80	87.3	92.3	109	115	60-140	6	
1,2-Dichloroethane	ug/L	ND	80	80	90.2	92.2	113	115	60-140	2	
1,2-Dichloropropane	ug/L	ND	80	80	94.2	96.8	118	121	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	80	80	99.8	106	125	133	60-140	6	
1,3-Dichlorobenzene	ug/L	ND	80	80	92.3	98.3	115	123	60-140	6	
1,3-Dichloropropane	ug/L	ND	80	80	94.0	95.3	118	119	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	80	80	87.3	93.2	109	116	60-140	7	
2,2-Dichloropropane	ug/L	ND	80	80	93.5	94.6	117	118	60-140	1	
2-Chlorotoluene	ug/L	ND	80	80	89.6	94.7	112	118	60-140	6	
4-Chlorotoluene	ug/L	ND	80	80	92.5	98.0	116	123	60-140	6	
Benzene	ug/L	190	80	80	279	287	110	121	60-140	3	
Bromobenzene	ug/L	ND	80	80	89.9	94.9	112	119	60-140	5	
Bromochloromethane	ug/L	ND	80	80	94.4	95.6	118	120	60-140	1	
Bromodichloromethane	ug/L	ND	80	80	86.4	87.8	108	110	60-140	2	
Bromoform	ug/L	ND	80	80	94.8	97.2	119	121	60-140	2	
Bromomethane	ug/L	ND	80	80	35.2	39.2	44	49	60-140	11	M1
Carbon tetrachloride	ug/L	ND	80	80	92.4	96.7	116	121	60-140	5	
Chlorobenzene	ug/L	ND	80	80	91.4	94.0	114	117	60-140	3	
Chloroethane	ug/L	ND	80	80	91.2	90.6	114	113	60-140	1	
Chloroform	ug/L	ND	80	80	87.8	90.4	110	113	60-140	3	
Chloromethane	ug/L	ND	80	80	77.1	77.5	96	97	60-140	0	
cis-1,2-Dichloroethene	ug/L	ND	80	80	89.1	89.9	111	112	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	80	80	97.3	98.5	122	123	60-140	1	
Dibromochloromethane	ug/L	ND	80	80	99.0	101	124	126	60-140	2	
Dibromomethane	ug/L	ND	80	80	96.1	96.3	120	120	60-140	0	
Dichlorodifluoromethane	ug/L	ND	80	80	108	106	135	132	60-140	2	
Diisopropyl ether	ug/L	ND	80	80	86.5	86.5	108	108	60-140	0	
Ethylbenzene	ug/L	481	80	80	582	602	127	151	60-140	3	M1
Hexachloro-1,3-butadiene	ug/L	ND	80	80	95.7	103	120	129	60-140	8	
Isopropylbenzene (Cumene)	ug/L	26.6	80	80	125	128	123	127	60-140	2	
m&p-Xylene	ug/L	24.4	160	160	222	228	124	127	60-140	2	
Methyl-tert-butyl ether	ug/L	ND	80	80	89.5	89.9	112	112	60-140	0	
Methylene Chloride	ug/L	ND	80	80	91.1	90.9	114	114	60-140	0	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CPC 20126
Pace Project No.: 92515755

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125382 3125383

Parameter	Units	92515281017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	80	80	94.4	101	118	127	60-140	7	
n-Propylbenzene	ug/L	46.9	80	80	142	152	119	131	60-140	7	
Naphthalene	ug/L	157	80	80	243	262	108	132	60-140	8	
o-Xylene	ug/L	10.2	80	80	101	103	114	116	60-140	2	
sec-Butylbenzene	ug/L	ND	80	80	98.8	105	124	132	60-140	6	
Styrene	ug/L	ND	80	80	93.3	95.7	117	120	60-140	3	
tert-Butylbenzene	ug/L	ND	80	80	81.8	86.2	102	108	60-140	5	
Tetrachloroethene	ug/L	ND	80	80	95.3	96.9	119	121	60-140	2	
Toluene	ug/L	41.3	80	80	137	139	119	122	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	80	80	97.2	97.2	121	121	60-140	0	
trans-1,3-Dichloropropene	ug/L	ND	80	80	94.5	96.8	118	121	60-140	2	
Trichloroethene	ug/L	ND	80	80	95.9	97.8	120	122	60-140	2	
Trichlorofluoromethane	ug/L	ND	80	80	95.2	98.9	119	124	60-140	4	
Vinyl chloride	ug/L	ND	80	80	93.7	94.2	117	118	60-140	1	
1,2-Dichloroethane-d4 (S)	%						101	98	70-130		
4-Bromofluorobenzene (S)	%						99	98	70-130		
Toluene-d8 (S)	%						99	100	70-130		

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CPC 20126
Pace Project No.: 92515755

QC Batch: 592158
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92515755005

METHOD BLANK: 3125836 Matrix: Water
Associated Lab Samples: 92515755005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/12/21 21:44	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/12/21 21:44	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/12/21 21:44	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
1,3-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
2,2-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
2-Chlorotoluene	ug/L	ND	0.50	01/12/21 21:44	
4-Chlorotoluene	ug/L	ND	0.50	01/12/21 21:44	
Benzene	ug/L	ND	0.50	01/12/21 21:44	
Bromobenzene	ug/L	ND	0.50	01/12/21 21:44	
Bromochloromethane	ug/L	ND	0.50	01/12/21 21:44	
Bromodichloromethane	ug/L	ND	0.50	01/12/21 21:44	
Bromoform	ug/L	ND	0.50	01/12/21 21:44	
Bromomethane	ug/L	ND	5.0	01/12/21 21:44	
Carbon tetrachloride	ug/L	ND	0.50	01/12/21 21:44	
Chlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
Chloroethane	ug/L	ND	1.0	01/12/21 21:44	
Chloroform	ug/L	ND	0.50	01/12/21 21:44	
Chloromethane	ug/L	ND	1.0	01/12/21 21:44	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
Dibromochloromethane	ug/L	ND	0.50	01/12/21 21:44	
Dibromomethane	ug/L	ND	0.50	01/12/21 21:44	
Dichlorodifluoromethane	ug/L	ND	0.50	01/12/21 21:44	
Diisopropyl ether	ug/L	ND	0.50	01/12/21 21:44	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CPC 20126
Pace Project No.: 92515755

METHOD BLANK: 3125836 Matrix: Water
Associated Lab Samples: 92515755005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/12/21 21:44	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/12/21 21:44	
m&p-Xylene	ug/L	ND	1.0	01/12/21 21:44	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/12/21 21:44	
Methylene Chloride	ug/L	ND	2.0	01/12/21 21:44	
n-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
n-Propylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Naphthalene	ug/L	ND	2.0	01/12/21 21:44	
o-Xylene	ug/L	ND	0.50	01/12/21 21:44	
sec-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Styrene	ug/L	ND	0.50	01/12/21 21:44	
tert-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Tetrachloroethene	ug/L	ND	0.50	01/12/21 21:44	
Toluene	ug/L	ND	0.50	01/12/21 21:44	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
Trichloroethene	ug/L	ND	0.50	01/12/21 21:44	
Trichlorofluoromethane	ug/L	ND	1.0	01/12/21 21:44	
Vinyl chloride	ug/L	ND	1.0	01/12/21 21:44	
1,2-Dichloroethane-d4 (S)	%	101	70-130	01/12/21 21:44	
4-Bromofluorobenzene (S)	%	104	70-130	01/12/21 21:44	
Toluene-d8 (S)	%	102	70-130	01/12/21 21:44	

LABORATORY CONTROL SAMPLE: 3125837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.1	104	60-140	
1,1,1-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,2-Trichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethane	ug/L	50	52.9	106	60-140	
1,1-Dichloroethene	ug/L	50	55.1	110	60-140	
1,1-Dichloropropene	ug/L	50	52.2	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,3-Trichloropropane	ug/L	50	49.4	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,2-Dichloroethane	ug/L	50	51.4	103	60-140	
1,2-Dichloropropane	ug/L	50	51.2	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	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: CPC 20126
Pace Project No.: 92515755

LABORATORY CONTROL SAMPLE: 3125837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.4	95	60-140	
1,3-Dichloropropane	ug/L	50	51.7	103	60-140	
1,4-Dichlorobenzene	ug/L	50	46.0	92	60-140	
2,2-Dichloropropane	ug/L	50	51.9	104	60-140	
2-Chlorotoluene	ug/L	50	47.7	95	60-140	
4-Chlorotoluene	ug/L	50	47.0	94	60-140	
Benzene	ug/L	50	50.3	101	60-140	
Bromobenzene	ug/L	50	46.2	92	60-140	
Bromochloromethane	ug/L	50	55.0	110	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	51.8	104	60-140	
Bromomethane	ug/L	50	51.6	103	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	46.9	94	60-140	
Chloroform	ug/L	50	51.4	103	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.1	110	60-140	
Dibromochloromethane	ug/L	50	51.5	103	60-140	
Dibromomethane	ug/L	50	52.1	104	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	53.4	107	60-140	
Ethylbenzene	ug/L	50	47.7	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	46.5	93	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.3	97	60-140	
m&p-Xylene	ug/L	100	94.9	95	60-140	
Methyl-tert-butyl ether	ug/L	50	55.9	112	60-140	
Methylene Chloride	ug/L	50	49.2	98	60-140	
n-Butylbenzene	ug/L	50	49.2	98	60-140	
n-Propylbenzene	ug/L	50	47.2	94	60-140	
Naphthalene	ug/L	50	50.4	101	60-140	
o-Xylene	ug/L	50	48.1	96	60-140	
sec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	48.6	97	60-140	
tert-Butylbenzene	ug/L	50	38.6	77	60-140	
Tetrachloroethene	ug/L	50	47.1	94	60-140	
Toluene	ug/L	50	49.4	99	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.1	110	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	46.3	93	60-140	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	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: CPC 20126
Pace Project No.: 92515755

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125838 3125839

Parameter	Units	92515762001 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	22.1	21.3	111	106	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.7	24.0	119	120	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.7	20.2	104	101	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.5	22.3	118	111	60-140	5	
1,1-Dichloroethane	ug/L	ND	20	20	23.7	23.4	118	117	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	25.1	24.9	125	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	23.4	23.5	117	118	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	19.4	100	97	60-140	3	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	18.9	99	94	60-140	4	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	21.3	111	106	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	19.8	103	99	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	22.7	22.6	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.9	22.1	114	110	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.2	20.6	106	103	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	22.6	21.8	113	109	60-140	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.5	19.6	103	98	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	24.3	24.1	122	121	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.7	20.5	104	103	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	21.4	20.6	107	103	60-140	4	
Benzene	ug/L	ND	20	20	22.7	22.1	114	110	60-140	3	
Bromobenzene	ug/L	ND	20	20	20.4	19.4	102	97	60-140	5	
Bromochloromethane	ug/L	ND	20	20	22.8	23.2	114	116	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	22.6	21.5	113	108	60-140	5	
Bromoform	ug/L	ND	20	20	20.6	19.9	103	100	60-140	3	
Bromomethane	ug/L	ND	20	20	19.9	19.5	99	97	60-140	2	
Carbon tetrachloride	ug/L	ND	20	20	23.5	22.9	118	114	60-140	3	
Chlorobenzene	ug/L	ND	20	20	21.7	21.5	109	108	60-140	1	
Chloroethane	ug/L	ND	20	20	23.5	23.2	117	116	60-140	1	
Chloroform	ug/L	ND	20	20	22.6	22.1	113	110	60-140	3	
Chloromethane	ug/L	ND	20	20	18.0	17.2	89	85	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.4	22.8	112	114	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.7	22.6	114	113	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.4	20.9	107	105	60-140	2	
Dibromomethane	ug/L	ND	20	20	23.5	22.3	117	112	60-140	5	
Dichlorodifluoromethane	ug/L	ND	20	20	20.0	19.7	100	99	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	22.6	21.8	113	109	60-140	4	
Ethylbenzene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.0	21.6	115	108	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.7	21.1	108	105	60-140	3	
m&p-Xylene	ug/L	ND	40	40	42.8	41.5	107	104	60-140	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.1	23.1	116	116	60-140	0	
Methylene Chloride	ug/L	ND	20	20	22.2	21.3	111	107	60-140	4	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: CPC 20126
Pace Project No.: 92515755

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125838 3125839

Parameter	Units	92515762001 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	22.7	21.6	113	108	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.4	20.5	107	103	60-140	4	
Naphthalene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
o-Xylene	ug/L	ND	20	20	22.0	21.6	110	108	60-140	2	
sec-Butylbenzene	ug/L	ND	20	20	21.4	20.9	107	105	60-140	2	
Styrene	ug/L	ND	20	20	22.0	20.6	110	103	60-140	7	
tert-Butylbenzene	ug/L	ND	20	20	17.9	17.0	89	85	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	21.1	21.2	106	106	60-140	1	
Toluene	ug/L	66.9	20	20	89.3	82.8	112	80	60-140	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.2	23.3	121	116	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.4	22.1	117	110	60-140	6	
Trichloroethene	ug/L	ND	20	20	23.1	22.9	116	114	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
Vinyl chloride	ug/L	ND	20	20	21.0	21.1	105	106	60-140	1	
1,2-Dichloroethane-d4 (S)	%						97	100	70-130		
4-Bromofluorobenzene (S)	%						103	100	70-130		
Toluene-d8 (S)	%						100	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: CPC 20126
Pace Project No.: 92515755

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: CPC 20126
Pace Project No.: 92515755

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515755001	**EB-1-20210109**	MADEPV	1605066	MADEP VPH	1605066
92515755002	**FB-1-20210109**	MADEPV	1605066	MADEP VPH	1605066
92515755003	**MW-25D (125-139)**	MADEPV	1605066	MADEP VPH	1605066
92515755004	**DUP-1-20210109**	MADEPV	1605066	MADEP VPH	1605066
92515755001	**EB-1-20210109**	EPA 3010A	592279	EPA 6010D	592305
92515755002	**FB-1-20210109**	EPA 3010A	592279	EPA 6010D	592305
92515755003	**MW-25D (125-139)**	EPA 3010A	592279	EPA 6010D	592305
92515755004	**DUP-1-20210109**	EPA 3010A	592279	EPA 6010D	592305
92515755001	**EB-1-20210109**	SM 6200B	592070		
92515755002	**FB-1-20210109**	SM 6200B	592070		
92515755003	**MW-25D (125-139)**	SM 6200B	592070		
92515755004	**DUP-1-20210109**	SM 6200B	592070		
92515755005	**Trip Blank**	SM 6200B	592158		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

WO# : 92515755

92515755

LAB US... Number or

Company: APEX COMPANIES	Billing Information:
Address: 5900 NORTHWOODS BUSINESS PKWY, ST-5900, CHARLOTTE NC	
Report To: ANDREW STREET	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: CPC 20126	State: NC / MECKLENBURG County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: Email:	Site/Facility ID #: CPC HUNTERSVILLE
Collected By (print): TOM NAUMANN	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: STANDARD
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: _____

* 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)

Containers

5	3	1								
VOC 6200	VPH	LEAD								

** 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	VOC 6200	VPH	LEAD								Lab Profile/Line:
FB-1-20210109	GW	G	1/9/21	1400					X	X	X								001
FB-1-20210109				1415					X	X	X								002
MW-250 (125-139)				1600					X	X	X								003
DUP-1-20210109				1615					X	X	X								004
TRIP BLANK									X										005

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:

92515755

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: b. bags

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

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

Lab Tracking #: 2561059

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: IR9ZTOG4
Cooler 1 Temp Upon Receipt: 4.6 oC
Cooler 1 Therm Corr. Factor: -.1 oC
Cooler 1 Corrected Temp: 4.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
TOM NAUMANN / APEX	1/9/21 1900	AMP PACE HVL	1-11-21 8:00
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

January 18, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace 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
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

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.: 92515762

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515762001	**MW-7D (120-127)'**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515762002	**DUP-6**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515762003	**MW-7D (84-91)'**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515762004	**EB-6**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515762005	**FB-6**	MADEP VPH	BMB	6	PAN
		EPA 6010D	KQ	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515762006	**Trip Blank**	SM 6200B	PM1	63	PASI-C

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

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

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: MW-7D (120-127)' **Lab ID: 92515762001** Collected: 01/10/21 14:40 Received: 01/11/21 09:15 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)	**132**	ug/L	100	1	01/13/21 17:05	01/13/21 17:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 17:05	01/13/21 17:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 17:05	01/13/21 17:05	TPHC9C10A	
Total VPH	**132**	ug/L	100	1	01/13/21 17:05	01/13/21 17:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.1	%	70.0-130	1	01/13/21 17:05	01/13/21 17:05	615-59-8FID	
2,5-Dibromotoluene (PID)	78.4	%	70.0-130	1	01/13/21 17:05	01/13/21 17:05	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**18.8**	ug/L	5.0	1	01/13/21 01:55	01/14/21 08:14	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 23:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 23:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 23:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 23:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 23:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 23:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 23:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 23:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 23:49	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 23:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 23:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 23:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 23:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 23:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 23:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 23:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 23:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 23:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 23:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 23:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:49	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.: 92515762

Sample: MW-7D (120-127)' **Lab ID: 92515762001** Collected: 01/10/21 14:40 Received: 01/11/21 09:15 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		01/12/21 23:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 23:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 23:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 23:49	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 23:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 23:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 23:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 23:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 23:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 23:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 23:49	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 23:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 23:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 23:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 23:49	127-18-4	
Toluene	**66.9**	ug/L	0.50	1		01/12/21 23:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 23:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 23:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 23:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 23:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 23:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 23:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 23:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 23:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 23:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 23:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 23:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 23:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/12/21 23:49	17060-07-0	
4-Bromofluorobenzene (S)	105	%	70-130	1		01/12/21 23:49	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/12/21 23:49	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: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: DUP-6 **Lab ID: 92515762002** Collected: 01/10/21 00:00 Received: 01/11/21 09:15 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)	**127**	ug/L	100	1	01/13/21 17:39	01/13/21 17:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 17:39	01/13/21 17:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 17:39	01/13/21 17:39	TPHC9C10A	
Total VPH	**127**	ug/L	100	1	01/13/21 17:39	01/13/21 17:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.8	%	70.0-130	1	01/13/21 17:39	01/13/21 17:39	615-59-8FID	
2,5-Dibromotoluene (PID)	80.5	%	70.0-130	1	01/13/21 17:39	01/13/21 17:39	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**7.0**	ug/L	5.0	1	01/13/21 01:55	01/14/21 08:17	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/13/21 00:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/13/21 00:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/13/21 00:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/13/21 00:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/13/21 00:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/13/21 00:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/13/21 00:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/13/21 00:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/21 00:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/13/21 00:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/21 00:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 00:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 00:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/13/21 00:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/13/21 00:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/13/21 00:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/13/21 00:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/13/21 00:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/13/21 00:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/13/21 00:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:07	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.: 92515762

Sample: DUP-6 **Lab ID: 92515762002** Collected: 01/10/21 00:00 Received: 01/11/21 09:15 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		01/13/21 00:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 00:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 00:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/13/21 00:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/13/21 00:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/13/21 00:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/13/21 00:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/13/21 00:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/13/21 00:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/13/21 00:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/13/21 00:07	103-65-1	
Styrene	ND	ug/L	0.50	1		01/13/21 00:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 00:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 00:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/13/21 00:07	127-18-4	
Toluene	**60.2**	ug/L	0.50	1		01/13/21 00:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 00:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 00:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/13/21 00:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/13/21 00:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/13/21 00:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/21 00:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/13/21 00:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 00:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 00:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/13/21 00:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/13/21 00:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/13/21 00:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/13/21 00:07	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/13/21 00:07	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/13/21 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.: 92515762

Sample: MW-7D (84-91)' **Lab ID: 92515762003** Collected: 01/11/21 08:20 Received: 01/11/21 09:15 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)	**285**	ug/L	100	1	01/13/21 18:12	01/13/21 18:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 18:12	01/13/21 18:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 18:12	01/13/21 18:12	TPHC9C10A	
Total VPH	**285**	ug/L	100	1	01/13/21 18:12	01/13/21 18:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.1	%	70.0-130	1	01/13/21 18:12	01/13/21 18:12	615-59-8FID	
2,5-Dibromotoluene (PID)	79.4	%	70.0-130	1	01/13/21 18:12	01/13/21 18:12	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**15.5**	ug/L	5.0	1	01/13/21 01:55	01/14/21 08:20	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/13/21 00:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/13/21 00:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/13/21 00:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/13/21 00:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/13/21 00:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/13/21 00:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/13/21 00:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/13/21 00:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/21 00:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/13/21 00:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/21 00:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 00:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 00:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/13/21 00:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/13/21 00:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/13/21 00:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/13/21 00:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/13/21 00:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/13/21 00:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/13/21 00:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:24	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.: 92515762

Sample: MW-7D (84-91)' **Lab ID: 92515762003** Collected: 01/11/21 08:20 Received: 01/11/21 09:15 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		01/13/21 00:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 00:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 00:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/13/21 00:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/13/21 00:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/13/21 00:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/13/21 00:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/13/21 00:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/13/21 00:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/13/21 00:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/13/21 00:24	103-65-1	
Styrene	ND	ug/L	0.50	1		01/13/21 00:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 00:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 00:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/13/21 00:24	127-18-4	
Toluene	**146**	ug/L	0.50	1		01/13/21 00:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 00:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 00:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/13/21 00:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/13/21 00:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/13/21 00:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/21 00:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/13/21 00:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 00:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 00:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/13/21 00:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/13/21 00:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/13/21 00:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/13/21 00:24	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1		01/13/21 00:24	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/13/21 00:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: EB-6 **Lab ID: 92515762004** Collected: 01/10/21 10:45 Received: 01/11/21 09:15 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	01/13/21 16:00	01/13/21 16:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 16:00	01/13/21 16:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 16:00	01/13/21 16:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/13/21 16:00	01/13/21 16:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.8	%	70.0-130	1	01/13/21 16:00	01/13/21 16:00	615-59-8FID	
2,5-Dibromotoluene (PID)	75.8	%	70.0-130	1	01/13/21 16:00	01/13/21 16:00	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	01/13/21 01:55	01/14/21 08:23	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 22:38	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 22:38	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 22:38	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 22:38	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 22:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 22:38	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:38	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:38	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:38	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 22:38	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 22:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 22:38	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 22:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 22:38	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:38	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 22:38	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 22:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 22:38	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 22:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 22:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:38	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: EB-6 **Lab ID: 92515762004** Collected: 01/10/21 10:45 Received: 01/11/21 09:15 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		01/12/21 22:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:38	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 22:38	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 22:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 22:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 22:38	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 22:38	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 22:38	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 22:38	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 22:38	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:38	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 22:38	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 22:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:38	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 22:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 22:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 22:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 22:38	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 22:38	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 22:38	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/12/21 22:38	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1		01/12/21 22:38	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/12/21 22:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: FB-6 **Lab ID: 92515762005** Collected: 01/10/21 00:00 Received: 01/11/21 09:15 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	01/13/21 16:33	01/13/21 16:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 16:33	01/13/21 16:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 16:33	01/13/21 16:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/13/21 16:33	01/13/21 16:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.6	%	70.0-130	1	01/13/21 16:33	01/13/21 16:33	615-59-8FID	
2,5-Dibromotoluene (PID)	76.5	%	70.0-130	1	01/13/21 16:33	01/13/21 16:33	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	01/13/21 01:55	01/14/21 08:27	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 22:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 22:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 22:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 22:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 22:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 22:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 22:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 22:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 22:56	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 22:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 22:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 22:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 22:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 22:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 22:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 22:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:56	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: FB-6 **Lab ID: 92515762005** Collected: 01/10/21 00:00 Received: 01/11/21 09:15 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		01/12/21 22:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 22:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 22:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 22:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 22:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 22:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 22:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 22:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 22:56	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 22:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:56	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 22:56	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 22:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 22:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 22:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 22:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 22:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 22:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 22:56	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/12/21 22:56	17060-07-0	
4-Bromofluorobenzene (S)	103	%	70-130	1		01/12/21 22:56	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/12/21 22:56	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: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: Trip Blank **Lab ID: 92515762006** Collected: 01/10/21 00:00 Received: 01/11/21 09:15 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		01/12/21 22:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 22:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 22:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 22:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 22:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 22:20	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 22:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 22:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 22:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 22:20	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 22:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 22:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 22:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 22:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 22:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 22:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 22:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 22:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 22:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 22:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 22:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 22:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 22:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 22:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 22:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 22:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 22:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 22:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 22:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 22:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 22:20	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 22:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 22:20	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

Sample: Trip Blank **Lab ID: 92515762006** Collected: 01/10/21 00:00 Received: 01/11/21 09:15 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		01/12/21 22:20	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 22:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 22:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 22:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 22:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 22:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 22:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 22:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 22:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 22:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 22:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/12/21 22:20	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1		01/12/21 22:20	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/12/21 22:20	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.: 92515762

QC Batch: 1605066 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515762001, 92515762002, 92515762003, 92515762004, 92515762005

METHOD BLANK: R3613254-3 Matrix: Water
Associated Lab Samples: 92515762001, 92515762002, 92515762003, 92515762004, 92515762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/13/21 15:27	
Aliphatic (C09-C12)	ug/L	ND	100	01/13/21 15:27	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/13/21 15:27	
Total VPH	ug/L	ND	100	01/13/21 15:27	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	01/13/21 15:27	
2,5-Dibromotoluene (PID)	%	70.8	70.0-130	01/13/21 15:27	

LABORATORY CONTROL SAMPLE & LCSD: R3613254-1 R3613254-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1350	1350	113	113	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1470	1480	105	106	70.0-130	0.678	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	167	166	83.5	83.0	70.0-130	0.601	25	
Total VPH	ug/L	2800	2990	3000	107	107	70.0-130	0.334	25	
2,5-Dibromotoluene (FID)	%				99.9	98.4	70.0-130			
2,5-Dibromotoluene (PID)	%				84.0	81.3	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

QC Batch: 592279 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515762001, 92515762002, 92515762003, 92515762004, 92515762005

METHOD BLANK: 3126586 Matrix: Water
Associated Lab Samples: 92515762001, 92515762002, 92515762003, 92515762004, 92515762005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/14/21 07:48	

LABORATORY CONTROL SAMPLE: 3126587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3126588 3126589

Parameter	Units	92515827007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	507	506	101	101	75-125	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

QC Batch: 592158
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515762001, 92515762002, 92515762003, 92515762004, 92515762005, 92515762006

METHOD BLANK: 3125836 Matrix: Water
Associated Lab Samples: 92515762001, 92515762002, 92515762003, 92515762004, 92515762005, 92515762006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/12/21 21:44	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/12/21 21:44	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/12/21 21:44	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
1,3-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
2,2-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
2-Chlorotoluene	ug/L	ND	0.50	01/12/21 21:44	
4-Chlorotoluene	ug/L	ND	0.50	01/12/21 21:44	
Benzene	ug/L	ND	0.50	01/12/21 21:44	
Bromobenzene	ug/L	ND	0.50	01/12/21 21:44	
Bromochloromethane	ug/L	ND	0.50	01/12/21 21:44	
Bromodichloromethane	ug/L	ND	0.50	01/12/21 21:44	
Bromoform	ug/L	ND	0.50	01/12/21 21:44	
Bromomethane	ug/L	ND	5.0	01/12/21 21:44	
Carbon tetrachloride	ug/L	ND	0.50	01/12/21 21:44	
Chlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
Chloroethane	ug/L	ND	1.0	01/12/21 21:44	
Chloroform	ug/L	ND	0.50	01/12/21 21:44	
Chloromethane	ug/L	ND	1.0	01/12/21 21:44	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
Dibromochloromethane	ug/L	ND	0.50	01/12/21 21:44	
Dibromomethane	ug/L	ND	0.50	01/12/21 21:44	
Dichlorodifluoromethane	ug/L	ND	0.50	01/12/21 21:44	
Diisopropyl ether	ug/L	ND	0.50	01/12/21 21:44	

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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.: 92515762

METHOD BLANK: 3125836 Matrix: Water
Associated Lab Samples: 92515762001, 92515762002, 92515762003, 92515762004, 92515762005, 92515762006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/12/21 21:44	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/12/21 21:44	
m&p-Xylene	ug/L	ND	1.0	01/12/21 21:44	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/12/21 21:44	
Methylene Chloride	ug/L	ND	2.0	01/12/21 21:44	
n-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
n-Propylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Naphthalene	ug/L	ND	2.0	01/12/21 21:44	
o-Xylene	ug/L	ND	0.50	01/12/21 21:44	
sec-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Styrene	ug/L	ND	0.50	01/12/21 21:44	
tert-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Tetrachloroethene	ug/L	ND	0.50	01/12/21 21:44	
Toluene	ug/L	ND	0.50	01/12/21 21:44	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
Trichloroethene	ug/L	ND	0.50	01/12/21 21:44	
Trichlorofluoromethane	ug/L	ND	1.0	01/12/21 21:44	
Vinyl chloride	ug/L	ND	1.0	01/12/21 21:44	
1,2-Dichloroethane-d4 (S)	%	101	70-130	01/12/21 21:44	
4-Bromofluorobenzene (S)	%	104	70-130	01/12/21 21:44	
Toluene-d8 (S)	%	102	70-130	01/12/21 21:44	

LABORATORY CONTROL SAMPLE: 3125837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.1	104	60-140	
1,1,1-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,2-Trichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethane	ug/L	50	52.9	106	60-140	
1,1-Dichloroethene	ug/L	50	55.1	110	60-140	
1,1-Dichloropropene	ug/L	50	52.2	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,3-Trichloropropane	ug/L	50	49.4	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,2-Dichloroethane	ug/L	50	51.4	103	60-140	
1,2-Dichloropropane	ug/L	50	51.2	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92515762

LABORATORY CONTROL SAMPLE: 3125837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.4	95	60-140	
1,3-Dichloropropane	ug/L	50	51.7	103	60-140	
1,4-Dichlorobenzene	ug/L	50	46.0	92	60-140	
2,2-Dichloropropane	ug/L	50	51.9	104	60-140	
2-Chlorotoluene	ug/L	50	47.7	95	60-140	
4-Chlorotoluene	ug/L	50	47.0	94	60-140	
Benzene	ug/L	50	50.3	101	60-140	
Bromobenzene	ug/L	50	46.2	92	60-140	
Bromochloromethane	ug/L	50	55.0	110	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	51.8	104	60-140	
Bromomethane	ug/L	50	51.6	103	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	46.9	94	60-140	
Chloroform	ug/L	50	51.4	103	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.1	110	60-140	
Dibromochloromethane	ug/L	50	51.5	103	60-140	
Dibromomethane	ug/L	50	52.1	104	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	53.4	107	60-140	
Ethylbenzene	ug/L	50	47.7	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	46.5	93	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.3	97	60-140	
m&p-Xylene	ug/L	100	94.9	95	60-140	
Methyl-tert-butyl ether	ug/L	50	55.9	112	60-140	
Methylene Chloride	ug/L	50	49.2	98	60-140	
n-Butylbenzene	ug/L	50	49.2	98	60-140	
n-Propylbenzene	ug/L	50	47.2	94	60-140	
Naphthalene	ug/L	50	50.4	101	60-140	
o-Xylene	ug/L	50	48.1	96	60-140	
sec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	48.6	97	60-140	
tert-Butylbenzene	ug/L	50	38.6	77	60-140	
Tetrachloroethene	ug/L	50	47.1	94	60-140	
Toluene	ug/L	50	49.4	99	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.1	110	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	46.3	93	60-140	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	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: 2020-L1-2448 Incident
Pace Project No.: 92515762

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125838 3125839

Parameter	Units	92515762001 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	22.1	21.3	111	106	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.7	24.0	119	120	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.7	20.2	104	101	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.5	22.3	118	111	60-140	5	
1,1-Dichloroethane	ug/L	ND	20	20	23.7	23.4	118	117	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	25.1	24.9	125	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	23.4	23.5	117	118	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	19.4	100	97	60-140	3	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	18.9	99	94	60-140	4	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	21.3	111	106	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	19.8	103	99	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	22.7	22.6	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.9	22.1	114	110	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.2	20.6	106	103	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	22.6	21.8	113	109	60-140	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.5	19.6	103	98	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	24.3	24.1	122	121	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.7	20.5	104	103	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	21.4	20.6	107	103	60-140	4	
Benzene	ug/L	ND	20	20	22.7	22.1	114	110	60-140	3	
Bromobenzene	ug/L	ND	20	20	20.4	19.4	102	97	60-140	5	
Bromochloromethane	ug/L	ND	20	20	22.8	23.2	114	116	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	22.6	21.5	113	108	60-140	5	
Bromoform	ug/L	ND	20	20	20.6	19.9	103	100	60-140	3	
Bromomethane	ug/L	ND	20	20	19.9	19.5	99	97	60-140	2	
Carbon tetrachloride	ug/L	ND	20	20	23.5	22.9	118	114	60-140	3	
Chlorobenzene	ug/L	ND	20	20	21.7	21.5	109	108	60-140	1	
Chloroethane	ug/L	ND	20	20	23.5	23.2	117	116	60-140	1	
Chloroform	ug/L	ND	20	20	22.6	22.1	113	110	60-140	3	
Chloromethane	ug/L	ND	20	20	18.0	17.2	89	85	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.4	22.8	112	114	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.7	22.6	114	113	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.4	20.9	107	105	60-140	2	
Dibromomethane	ug/L	ND	20	20	23.5	22.3	117	112	60-140	5	
Dichlorodifluoromethane	ug/L	ND	20	20	20.0	19.7	100	99	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	22.6	21.8	113	109	60-140	4	
Ethylbenzene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.0	21.6	115	108	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.7	21.1	108	105	60-140	3	
m&p-Xylene	ug/L	ND	40	40	42.8	41.5	107	104	60-140	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.1	23.1	116	116	60-140	0	
Methylene Chloride	ug/L	ND	20	20	22.2	21.3	111	107	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.: 92515762

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125838 3125839

Parameter	Units	92515762001 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	22.7	21.6	113	108	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.4	20.5	107	103	60-140	4	
Naphthalene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
o-Xylene	ug/L	ND	20	20	22.0	21.6	110	108	60-140	2	
sec-Butylbenzene	ug/L	ND	20	20	21.4	20.9	107	105	60-140	2	
Styrene	ug/L	ND	20	20	22.0	20.6	110	103	60-140	7	
tert-Butylbenzene	ug/L	ND	20	20	17.9	17.0	89	85	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	21.1	21.2	106	106	60-140	1	
Toluene	ug/L	66.9	20	20	89.3	82.8	112	80	60-140	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.2	23.3	121	116	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.4	22.1	117	110	60-140	6	
Trichloroethene	ug/L	ND	20	20	23.1	22.9	116	114	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
Vinyl chloride	ug/L	ND	20	20	21.0	21.1	105	106	60-140	1	
1,2-Dichloroethane-d4 (S)	%						97	100	70-130		
4-Bromofluorobenzene (S)	%						103	100	70-130		
Toluene-d8 (S)	%						100	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: 2020-L1-2448 Incident
Pace Project No.: 92515762

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-L1-2448 Incident
Pace Project No.: 92515762

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515762001	**MW-7D (120-127)'**	MADEPV	1605066	MADEP VPH	1605066
92515762002	**DUP-6**	MADEPV	1605066	MADEP VPH	1605066
92515762003	**MW-7D (84-91)'**	MADEPV	1605066	MADEP VPH	1605066
92515762004	**EB-6**	MADEPV	1605066	MADEP VPH	1605066
92515762005	**FB-6**	MADEPV	1605066	MADEP VPH	1605066
92515762001	**MW-7D (120-127)'**	EPA 3010A	592279	EPA 6010D	592305
92515762002	**DUP-6**	EPA 3010A	592279	EPA 6010D	592305
92515762003	**MW-7D (84-91)'**	EPA 3010A	592279	EPA 6010D	592305
92515762004	**EB-6**	EPA 3010A	592279	EPA 6010D	592305
92515762005	**FB-6**	EPA 3010A	592279	EPA 6010D	592305
92515762001	**MW-7D (120-127)'**	SM 6200B	592158		
92515762002	**DUP-6**	SM 6200B	592158		
92515762003	**MW-7D (84-91)'**	SM 6200B	592158		
92515762004	**EB-6**	SM 6200B	592158		
92515762005	**FB-6**	SM 6200B	592158		
92515762006	**Trip Blank**	SM 6200B	592158		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92515762

92515762

rkorder 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:
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)

** 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 Sample # / Comments
MW-7D (120-127)'	GW	G	1-10-21	1440				8	X	X	X	92515762 001
DUP-6	GW		1-10-21	-				8	X	X	X	006002 AMP 1-11
MW-7D (84-91)'	GW		1-11-21	0820				8	X	X	X	003
EB-6	OT		1-10-21	1045				8	X	X	X	004
FB-6	OT		1-10-21	-				8	X	X	X	005
Trip Blank	OT	-	1-10-21	-				2	X			006

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 #: 2529461

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: 3.2 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 3.1 oC

Comments:

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) Naomi Fretz / Apex	1-11-21 0915	HD PACE HVL	1/11/21 0915
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#:92515762**

PM: AMB Due Date: 01/18/21

CLIENT: 92-APEX MOOR

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	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																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 Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 18, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92515869

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace 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
Michael Verdon, 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: 2020-L1-2448 Incident
Pace Project No.: 92515869

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.: 92515869

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92515869001	**MW-25D (115-122)**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515869002	**DUP-7**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515869003	**MW-25D (108-115)**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515869004	**MW-25D (83-90)**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515869005	**EB-7**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C
92515869006	**FB-7**	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	PM1	63	PASI-C

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

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.: 92515869

Sample: MW-25D (115-122) **Lab ID: 92515869001** Collected: 01/11/21 12:25 Received: 01/11/21 17:30 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	01/14/21 00:58	01/14/21 00:58		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/14/21 00:58	01/14/21 00:58		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/14/21 00:58	01/14/21 00:58	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/14/21 00:58	01/14/21 00:58	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.8	%	70.0-130	1	01/14/21 00:58	01/14/21 00:58	615-59-8FID	
2,5-Dibromotoluene (PID)	80.4	%	70.0-130	1	01/14/21 00:58	01/14/21 00:58	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	01/13/21 01:55	01/14/21 18:54	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/13/21 01:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/13/21 01:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/13/21 01:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/13/21 01:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/13/21 01:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/13/21 01:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/13/21 01:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/13/21 01:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/21 01:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/13/21 01:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/21 01:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 01:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 01:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/13/21 01:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/13/21 01:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/13/21 01:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/13/21 01:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/13/21 01:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/13/21 01:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/13/21 01:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:36	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: MW-25D (115-122) **Lab ID: 92515869001** Collected: 01/11/21 12:25 Received: 01/11/21 17:30 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		01/13/21 01:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 01:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 01:36	10061-02-6	
Diisopropyl ether	**0.97**	ug/L	0.50	1		01/13/21 01:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/13/21 01:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/13/21 01:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/13/21 01:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/13/21 01:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/13/21 01:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/13/21 01:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/13/21 01:36	103-65-1	
Styrene	ND	ug/L	0.50	1		01/13/21 01:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 01:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 01:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/13/21 01:36	127-18-4	
Toluene	**3.8**	ug/L	0.50	1		01/13/21 01:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 01:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 01:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/13/21 01:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/13/21 01:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/13/21 01:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/21 01:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/13/21 01:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 01:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 01:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/13/21 01:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/13/21 01:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/13/21 01:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/13/21 01:36	17060-07-0	
4-Bromofluorobenzene (S)	108	%	70-130	1		01/13/21 01:36	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/13/21 01:36	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: DUP-7 **Lab ID: 92515869002** Collected: 01/11/21 00:00 Received: 01/11/21 17:30 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	01/14/21 01:32	01/14/21 01:32		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/14/21 01:32	01/14/21 01:32		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/14/21 01:32	01/14/21 01:32	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/14/21 01:32	01/14/21 01:32	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.7	%	70.0-130	1	01/14/21 01:32	01/14/21 01:32	615-59-8FID	
2,5-Dibromotoluene (PID)	76.8	%	70.0-130	1	01/14/21 01:32	01/14/21 01:32	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	01/13/21 01:55	01/14/21 18:57	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/13/21 01:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/13/21 01:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/13/21 01:18	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/13/21 01:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/13/21 01:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/13/21 01:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/13/21 01:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/13/21 01:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/21 01:18	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/13/21 01:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/21 01:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 01:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 01:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/13/21 01:18	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/13/21 01:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/13/21 01:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/13/21 01:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/13/21 01:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/13/21 01:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/13/21 01:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:18	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: DUP-7 **Lab ID: 92515869002** Collected: 01/11/21 00:00 Received: 01/11/21 17:30 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		01/13/21 01:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 01:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 01:18	10061-02-6	
Diisopropyl ether	**0.98**	ug/L	0.50	1		01/13/21 01:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/13/21 01:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/13/21 01:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/13/21 01:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/13/21 01:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/13/21 01:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/13/21 01:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/13/21 01:18	103-65-1	
Styrene	ND	ug/L	0.50	1		01/13/21 01:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 01:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 01:18	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/13/21 01:18	127-18-4	
Toluene	**4.0**	ug/L	0.50	1		01/13/21 01:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 01:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 01:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/13/21 01:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/13/21 01:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/13/21 01:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/21 01:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/13/21 01:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 01:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 01:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/13/21 01:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/13/21 01:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/13/21 01:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		01/13/21 01:18	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/13/21 01:18	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/13/21 01:18	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: MW-25D (108-115) **Lab ID: 92515869003** Collected: 01/11/21 14:25 Received: 01/11/21 17:30 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	01/14/21 02:05	01/14/21 02:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/14/21 02:05	01/14/21 02:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/14/21 02:05	01/14/21 02:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/14/21 02:05	01/14/21 02:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.2	%	70.0-130	1	01/14/21 02:05	01/14/21 02:05	615-59-8FID	
2,5-Dibromotoluene (PID)	75.7	%	70.0-130	1	01/14/21 02:05	01/14/21 02:05	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**7.9**	ug/L	5.0	1	01/13/21 01:55	01/14/21 19:00	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/13/21 01:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/13/21 01:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/13/21 01:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/13/21 01:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/13/21 01:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/13/21 01:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/13/21 01:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/13/21 01:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/13/21 01:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/21 01:00	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/13/21 01:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/21 01:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 01:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 01:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/13/21 01:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/13/21 01:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/13/21 01:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/13/21 01:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 01:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/13/21 01:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/13/21 01:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/13/21 01:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 01:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 01:00	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: MW-25D (108-115) **Lab ID: 92515869003** Collected: 01/11/21 14:25 Received: 01/11/21 17:30 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		01/13/21 01:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 01:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 01:00	10061-02-6	
Diisopropyl ether	**0.91**	ug/L	0.50	1		01/13/21 01:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/13/21 01:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/13/21 01:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/13/21 01:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/13/21 01:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/13/21 01:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/13/21 01:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/13/21 01:00	103-65-1	
Styrene	ND	ug/L	0.50	1		01/13/21 01:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 01:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 01:00	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/13/21 01:00	127-18-4	
Toluene	**34.1**	ug/L	0.50	1		01/13/21 01:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 01:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 01:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/13/21 01:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/13/21 01:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/13/21 01:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/21 01:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/13/21 01:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 01:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 01:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/13/21 01:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/13/21 01:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/13/21 01:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		01/13/21 01:00	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/13/21 01:00	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/13/21 01:00	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: MW-25D (83-90) **Lab ID: 92515869004** Collected: 01/11/21 15:30 Received: 01/11/21 17:30 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)	**118**	ug/L	100	1	01/14/21 02:39	01/14/21 02:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/14/21 02:39	01/14/21 02:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/14/21 02:39	01/14/21 02:39	TPHC9C10A	
Total VPH	**118**	ug/L	100	1	01/14/21 02:39	01/14/21 02:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.1	%	70.0-130	1	01/14/21 02:39	01/14/21 02:39	615-59-8FID	
2,5-Dibromotoluene (PID)	74.0	%	70.0-130	1	01/14/21 02:39	01/14/21 02:39	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**8.1**	ug/L	5.0	1	01/13/21 01:55	01/14/21 19:04	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/13/21 00:42	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/13/21 00:42	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/13/21 00:42	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/13/21 00:42	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/13/21 00:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/13/21 00:42	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:42	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:42	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/13/21 00:42	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/13/21 00:42	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/13/21 00:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/13/21 00:42	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/13/21 00:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/13/21 00:42	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 00:42	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/13/21 00:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/13/21 00:42	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/13/21 00:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/13/21 00:42	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/13/21 00:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/13/21 00:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/13/21 00:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/13/21 00:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/13/21 00:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/13/21 00:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/13/21 00:42	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: MW-25D (83-90) **Lab ID: 92515869004** Collected: 01/11/21 15:30 Received: 01/11/21 17:30 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		01/13/21 00:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 00:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/13/21 00:42	10061-02-6	
Diisopropyl ether	**0.88**	ug/L	0.50	1		01/13/21 00:42	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/13/21 00:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/13/21 00:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/13/21 00:42	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/13/21 00:42	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/13/21 00:42	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/13/21 00:42	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/13/21 00:42	103-65-1	
Styrene	ND	ug/L	0.50	1		01/13/21 00:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 00:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/13/21 00:42	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/13/21 00:42	127-18-4	
Toluene	**131**	ug/L	0.50	1		01/13/21 00:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 00:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/13/21 00:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/13/21 00:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/13/21 00:42	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/13/21 00:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/13/21 00:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/13/21 00:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 00:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/13/21 00:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/13/21 00:42	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/13/21 00:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/13/21 00:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/13/21 00:42	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/13/21 00:42	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/13/21 00:42	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

Sample: EB-7 **Lab ID: 92515869005** Collected: 01/11/21 09:50 Received: 01/11/21 17:30 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	01/13/21 23:52	01/13/21 23:52		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/13/21 23:52	01/13/21 23:52		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/13/21 23:52	01/13/21 23:52	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/13/21 23:52	01/13/21 23:52	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.6	%	70.0-130	1	01/13/21 23:52	01/13/21 23:52	615-59-8FID	
2,5-Dibromotoluene (PID)	78.4	%	70.0-130	1	01/13/21 23:52	01/13/21 23:52	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**6.9**	ug/L	5.0	1	01/13/21 01:55	01/14/21 19:07	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 23:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 23:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 23:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 23:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 23:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 23:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 23:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 23:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 23:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 23:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 23:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 23:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 23:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 23:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 23:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 23:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 23:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 23:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 23:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 23:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:13	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.: 92515869

Sample: EB-7 **Lab ID: 92515869005** Collected: 01/11/21 09:50 Received: 01/11/21 17:30 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		01/12/21 23:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 23:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 23:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 23:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 23:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 23:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 23:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 23:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 23:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 23:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 23:13	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 23:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 23:13	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 23:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 23:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 23:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 23:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 23:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 23:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 23:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 23:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 23:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 23:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 23:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 23:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 23:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/12/21 23:13	17060-07-0	
4-Bromofluorobenzene (S)	104	%	70-130	1		01/12/21 23:13	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		01/12/21 23:13	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.: 92515869

Sample: FB-7 **Lab ID: 92515869006** Collected: 01/11/21 00:00 Received: 01/11/21 17:30 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	01/14/21 00:25	01/14/21 00:25		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/14/21 00:25	01/14/21 00:25		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/14/21 00:25	01/14/21 00:25	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/14/21 00:25	01/14/21 00:25	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.2	%	70.0-130	1	01/14/21 00:25	01/14/21 00:25	615-59-8FID	
2,5-Dibromotoluene (PID)	80.6	%	70.0-130	1	01/14/21 00:25	01/14/21 00:25	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	01/13/21 01:55	01/14/21 16:10	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/12/21 23:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/12/21 23:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/12/21 23:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/12/21 23:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/12/21 23:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/12/21 23:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/12/21 23:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/12/21 23:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/12/21 23:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/12/21 23:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/12/21 23:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/12/21 23:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 23:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/12/21 23:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/12/21 23:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/12/21 23:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/12/21 23:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/12/21 23:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/12/21 23:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/12/21 23:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/12/21 23:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/12/21 23:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/12/21 23:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/12/21 23:31	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.: 92515869

Sample: FB-7 **Lab ID: 92515869006** Collected: 01/11/21 00:00 Received: 01/11/21 17:30 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		01/12/21 23:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 23:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/12/21 23:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/12/21 23:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/12/21 23:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/12/21 23:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/12/21 23:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/12/21 23:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/12/21 23:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/12/21 23:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/12/21 23:31	103-65-1	
Styrene	ND	ug/L	0.50	1		01/12/21 23:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 23:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/12/21 23:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/12/21 23:31	127-18-4	
Toluene	ND	ug/L	0.50	1		01/12/21 23:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 23:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/12/21 23:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/12/21 23:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/12/21 23:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/12/21 23:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/12/21 23:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/12/21 23:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 23:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/12/21 23:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/12/21 23:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/12/21 23:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/12/21 23:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/12/21 23:31	17060-07-0	
4-Bromofluorobenzene (S)	106	%	70-130	1		01/12/21 23:31	460-00-4	
Toluene-d8 (S)	103	%	70-130	1		01/12/21 23:31	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

QC Batch: 1605066 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92515869001, 92515869002, 92515869003, 92515869004, 92515869005, 92515869006

METHOD BLANK: R3613254-3 Matrix: Water
Associated Lab Samples: 92515869001, 92515869002, 92515869003, 92515869004, 92515869005, 92515869006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/13/21 15:27	
Aliphatic (C09-C12)	ug/L	ND	100	01/13/21 15:27	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/13/21 15:27	
Total VPH	ug/L	ND	100	01/13/21 15:27	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	01/13/21 15:27	
2,5-Dibromotoluene (PID)	%	70.8	70.0-130	01/13/21 15:27	

LABORATORY CONTROL SAMPLE & LCSD: R3613254-1 R3613254-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1350	1350	113	113	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1470	1480	105	106	70.0-130	0.678	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	167	166	83.5	83.0	70.0-130	0.601	25	
Total VPH	ug/L	2800	2990	3000	107	107	70.0-130	0.334	25	
2,5-Dibromotoluene (FID)	%				99.9	98.4	70.0-130			
2,5-Dibromotoluene (PID)	%				84.0	81.3	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92515869

QC Batch: 592279 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92515869001, 92515869002, 92515869003, 92515869004, 92515869005

METHOD BLANK: 3126586 Matrix: Water
Associated Lab Samples: 92515869001, 92515869002, 92515869003, 92515869004, 92515869005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/14/21 07:48	

LABORATORY CONTROL SAMPLE: 3126587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3126588 3126589

Parameter	Units	92515827007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	ND	500	500	507	506	101	101	75-125	0	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92515869

QC Batch: 592280
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92515869006

METHOD BLANK: 3126590 Matrix: Water
Associated Lab Samples: 92515869006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/14/21 16:03	

LABORATORY CONTROL SAMPLE: 3126591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	490	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3126592 3126593

Parameter	Units	92515806001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	63.3	500	500	455	469	78	81	75-125	3	

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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.: 92515869

QC Batch: 592158
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92515869001, 92515869002, 92515869003, 92515869004, 92515869005, 92515869006

METHOD BLANK: 3125836 Matrix: Water
Associated Lab Samples: 92515869001, 92515869002, 92515869003, 92515869004, 92515869005, 92515869006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
1,1-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/12/21 21:44	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/12/21 21:44	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/12/21 21:44	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichloroethane	ug/L	ND	0.50	01/12/21 21:44	
1,2-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
1,3-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
2,2-Dichloropropane	ug/L	ND	0.50	01/12/21 21:44	
2-Chlorotoluene	ug/L	ND	0.50	01/12/21 21:44	
4-Chlorotoluene	ug/L	ND	0.50	01/12/21 21:44	
Benzene	ug/L	ND	0.50	01/12/21 21:44	
Bromobenzene	ug/L	ND	0.50	01/12/21 21:44	
Bromochloromethane	ug/L	ND	0.50	01/12/21 21:44	
Bromodichloromethane	ug/L	ND	0.50	01/12/21 21:44	
Bromoform	ug/L	ND	0.50	01/12/21 21:44	
Bromomethane	ug/L	ND	5.0	01/12/21 21:44	
Carbon tetrachloride	ug/L	ND	0.50	01/12/21 21:44	
Chlorobenzene	ug/L	ND	0.50	01/12/21 21:44	
Chloroethane	ug/L	ND	1.0	01/12/21 21:44	
Chloroform	ug/L	ND	0.50	01/12/21 21:44	
Chloromethane	ug/L	ND	1.0	01/12/21 21:44	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
Dibromochloromethane	ug/L	ND	0.50	01/12/21 21:44	
Dibromomethane	ug/L	ND	0.50	01/12/21 21:44	
Dichlorodifluoromethane	ug/L	ND	0.50	01/12/21 21:44	
Diisopropyl ether	ug/L	ND	0.50	01/12/21 21:44	

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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.: 92515869

METHOD BLANK: 3125836 Matrix: Water
Associated Lab Samples: 92515869001, 92515869002, 92515869003, 92515869004, 92515869005, 92515869006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/12/21 21:44	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/12/21 21:44	
m&p-Xylene	ug/L	ND	1.0	01/12/21 21:44	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/12/21 21:44	
Methylene Chloride	ug/L	ND	2.0	01/12/21 21:44	
n-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
n-Propylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Naphthalene	ug/L	ND	2.0	01/12/21 21:44	
o-Xylene	ug/L	ND	0.50	01/12/21 21:44	
sec-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Styrene	ug/L	ND	0.50	01/12/21 21:44	
tert-Butylbenzene	ug/L	ND	0.50	01/12/21 21:44	
Tetrachloroethene	ug/L	ND	0.50	01/12/21 21:44	
Toluene	ug/L	ND	0.50	01/12/21 21:44	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/12/21 21:44	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/12/21 21:44	
Trichloroethene	ug/L	ND	0.50	01/12/21 21:44	
Trichlorofluoromethane	ug/L	ND	1.0	01/12/21 21:44	
Vinyl chloride	ug/L	ND	1.0	01/12/21 21:44	
1,2-Dichloroethane-d4 (S)	%	101	70-130	01/12/21 21:44	
4-Bromofluorobenzene (S)	%	104	70-130	01/12/21 21:44	
Toluene-d8 (S)	%	102	70-130	01/12/21 21:44	

LABORATORY CONTROL SAMPLE: 3125837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.1	104	60-140	
1,1,1-Trichloroethane	ug/L	50	53.0	106	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	60-140	
1,1,2-Trichloroethane	ug/L	50	52.7	105	60-140	
1,1-Dichloroethane	ug/L	50	52.9	106	60-140	
1,1-Dichloroethene	ug/L	50	55.1	110	60-140	
1,1-Dichloropropene	ug/L	50	52.2	104	60-140	
1,2,3-Trichlorobenzene	ug/L	50	46.2	92	60-140	
1,2,3-Trichloropropane	ug/L	50	49.4	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	60-140	
1,2-Dichlorobenzene	ug/L	50	48.0	96	60-140	
1,2-Dichloroethane	ug/L	50	51.4	103	60-140	
1,2-Dichloropropane	ug/L	50	51.2	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	47.8	96	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.: 92515869

LABORATORY CONTROL SAMPLE: 3125837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	47.4	95	60-140	
1,3-Dichloropropane	ug/L	50	51.7	103	60-140	
1,4-Dichlorobenzene	ug/L	50	46.0	92	60-140	
2,2-Dichloropropane	ug/L	50	51.9	104	60-140	
2-Chlorotoluene	ug/L	50	47.7	95	60-140	
4-Chlorotoluene	ug/L	50	47.0	94	60-140	
Benzene	ug/L	50	50.3	101	60-140	
Bromobenzene	ug/L	50	46.2	92	60-140	
Bromochloromethane	ug/L	50	55.0	110	60-140	
Bromodichloromethane	ug/L	50	52.0	104	60-140	
Bromoform	ug/L	50	51.8	104	60-140	
Bromomethane	ug/L	50	51.6	103	60-140	
Carbon tetrachloride	ug/L	50	51.3	103	60-140	
Chlorobenzene	ug/L	50	50.2	100	60-140	
Chloroethane	ug/L	50	46.9	94	60-140	
Chloroform	ug/L	50	51.4	103	60-140	
Chloromethane	ug/L	50	43.1	86	60-140	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.1	110	60-140	
Dibromochloromethane	ug/L	50	51.5	103	60-140	
Dibromomethane	ug/L	50	52.1	104	60-140	
Dichlorodifluoromethane	ug/L	50	43.6	87	60-140	
Diisopropyl ether	ug/L	50	53.4	107	60-140	
Ethylbenzene	ug/L	50	47.7	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	46.5	93	60-140	
Isopropylbenzene (Cumene)	ug/L	50	48.3	97	60-140	
m&p-Xylene	ug/L	100	94.9	95	60-140	
Methyl-tert-butyl ether	ug/L	50	55.9	112	60-140	
Methylene Chloride	ug/L	50	49.2	98	60-140	
n-Butylbenzene	ug/L	50	49.2	98	60-140	
n-Propylbenzene	ug/L	50	47.2	94	60-140	
Naphthalene	ug/L	50	50.4	101	60-140	
o-Xylene	ug/L	50	48.1	96	60-140	
sec-Butylbenzene	ug/L	50	46.9	94	60-140	
Styrene	ug/L	50	48.6	97	60-140	
tert-Butylbenzene	ug/L	50	38.6	77	60-140	
Tetrachloroethene	ug/L	50	47.1	94	60-140	
Toluene	ug/L	50	49.4	99	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.1	110	60-140	
Trichloroethene	ug/L	50	49.6	99	60-140	
Trichlorofluoromethane	ug/L	50	47.0	94	60-140	
Vinyl chloride	ug/L	50	46.3	93	60-140	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

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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.: 92515869

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125838 3125839

Parameter	Units	92515762001 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	22.1	21.3	111	106	60-140	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.7	24.0	119	120	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.7	20.2	104	101	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.5	22.3	118	111	60-140	5	
1,1-Dichloroethane	ug/L	ND	20	20	23.7	23.4	118	117	60-140	1	
1,1-Dichloroethene	ug/L	ND	20	20	25.1	24.9	125	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	20	20	23.4	23.5	117	118	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.0	19.4	100	97	60-140	3	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.9	20.4	105	102	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	18.9	99	94	60-140	4	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.5	19.3	98	96	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.3	21.3	111	106	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	19.8	103	99	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	22.7	22.6	113	113	60-140	0	
1,2-Dichloropropane	ug/L	ND	20	20	22.9	22.1	114	110	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.2	20.6	106	103	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.8	19.9	104	99	60-140	4	
1,3-Dichloropropane	ug/L	ND	20	20	22.6	21.8	113	109	60-140	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.5	19.6	103	98	60-140	5	
2,2-Dichloropropane	ug/L	ND	20	20	24.3	24.1	122	121	60-140	1	
2-Chlorotoluene	ug/L	ND	20	20	20.7	20.5	104	103	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	21.4	20.6	107	103	60-140	4	
Benzene	ug/L	ND	20	20	22.7	22.1	114	110	60-140	3	
Bromobenzene	ug/L	ND	20	20	20.4	19.4	102	97	60-140	5	
Bromochloromethane	ug/L	ND	20	20	22.8	23.2	114	116	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	22.6	21.5	113	108	60-140	5	
Bromoform	ug/L	ND	20	20	20.6	19.9	103	100	60-140	3	
Bromomethane	ug/L	ND	20	20	19.9	19.5	99	97	60-140	2	
Carbon tetrachloride	ug/L	ND	20	20	23.5	22.9	118	114	60-140	3	
Chlorobenzene	ug/L	ND	20	20	21.7	21.5	109	108	60-140	1	
Chloroethane	ug/L	ND	20	20	23.5	23.2	117	116	60-140	1	
Chloroform	ug/L	ND	20	20	22.6	22.1	113	110	60-140	3	
Chloromethane	ug/L	ND	20	20	18.0	17.2	89	85	60-140	5	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.4	22.8	112	114	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.7	22.6	114	113	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.4	20.9	107	105	60-140	2	
Dibromomethane	ug/L	ND	20	20	23.5	22.3	117	112	60-140	5	
Dichlorodifluoromethane	ug/L	ND	20	20	20.0	19.7	100	99	60-140	1	
Diisopropyl ether	ug/L	ND	20	20	22.6	21.8	113	109	60-140	4	
Ethylbenzene	ug/L	ND	20	20	21.1	20.6	105	103	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.0	21.6	115	108	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.7	21.1	108	105	60-140	3	
m&p-Xylene	ug/L	ND	40	40	42.8	41.5	107	104	60-140	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	23.1	23.1	116	116	60-140	0	
Methylene Chloride	ug/L	ND	20	20	22.2	21.3	111	107	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.: 92515869

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3125838 3125839

Parameter	Units	92515762001 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	22.7	21.6	113	108	60-140	5	
n-Propylbenzene	ug/L	ND	20	20	21.4	20.5	107	103	60-140	4	
Naphthalene	ug/L	ND	20	20	20.4	19.8	102	99	60-140	3	
o-Xylene	ug/L	ND	20	20	22.0	21.6	110	108	60-140	2	
sec-Butylbenzene	ug/L	ND	20	20	21.4	20.9	107	105	60-140	2	
Styrene	ug/L	ND	20	20	22.0	20.6	110	103	60-140	7	
tert-Butylbenzene	ug/L	ND	20	20	17.9	17.0	89	85	60-140	5	
Tetrachloroethene	ug/L	ND	20	20	21.1	21.2	106	106	60-140	1	
Toluene	ug/L	66.9	20	20	89.3	82.8	112	80	60-140	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.2	23.3	121	116	60-140	4	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.4	22.1	117	110	60-140	6	
Trichloroethene	ug/L	ND	20	20	23.1	22.9	116	114	60-140	1	
Trichlorofluoromethane	ug/L	ND	20	20	22.8	21.9	114	110	60-140	4	
Vinyl chloride	ug/L	ND	20	20	21.0	21.1	105	106	60-140	1	
1,2-Dichloroethane-d4 (S)	%						97	100	70-130		
4-Bromofluorobenzene (S)	%						103	100	70-130		
Toluene-d8 (S)	%						100	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: 2020-L1-2448 Incident
Pace Project No.: 92515869

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-L1-2448 Incident
Pace Project No.: 92515869

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92515869001	**MW-25D (115-122)**	MADEPV	1605066	MADEP VPH	1605066
92515869002	**DUP-7**	MADEPV	1605066	MADEP VPH	1605066
92515869003	**MW-25D (108-115)**	MADEPV	1605066	MADEP VPH	1605066
92515869004	**MW-25D (83-90)**	MADEPV	1605066	MADEP VPH	1605066
92515869005	**EB-7**	MADEPV	1605066	MADEP VPH	1605066
92515869006	**FB-7**	MADEPV	1605066	MADEP VPH	1605066
92515869001	**MW-25D (115-122)**	EPA 3010A	592279	EPA 6010D	592305
92515869002	**DUP-7**	EPA 3010A	592279	EPA 6010D	592305
92515869003	**MW-25D (108-115)**	EPA 3010A	592279	EPA 6010D	592305
92515869004	**MW-25D (83-90)**	EPA 3010A	592279	EPA 6010D	592305
92515869005	**EB-7**	EPA 3010A	592279	EPA 6010D	592305
92515869006	**FB-7**	EPA 3010A	592280	EPA 6010D	592306
92515869001	**MW-25D (115-122)**	SM 6200B	592158		
92515869002	**DUP-7**	SM 6200B	592158		
92515869003	**MW-25D (108-115)**	SM 6200B	592158		
92515869004	**MW-25D (83-90)**	SM 6200B	592158		
92515869005	**EB-7**	SM 6200B	592158		
92515869006	**FB-7**	SM 6200B	592158		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

WO# : 92515869

92515869

LAB US: Number or

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 County/City: Huntsville 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 _____

Container Preservative **

* 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
MW-25D (115-122)'	GW	G	1-11-21	1225				8	X	X	X	001
DUP-7	GW			1 -				8	X	X	X	002
MW-25D (108-115)	GW			1425				8	X	X	X	003
MW-25D (83-90)	GW			1530				8	X	X	X	004
EB-7	OT			0950				8	X	X	X	005
FB-7	OT			-				8	X	X	X	006
Trip Blank	OT	-		-				2	X			007

Lab Profile/Line:

Lab Sample Receipt Checklist: HD 1/11/21

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 HD PS 1/14
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 #: 2529447

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: 5.3 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.2 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fretz / Apex	1-11-21 1730	HD PACE HVC	1/11/21 1730
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: 1/11/21	Evaluated by: HWD
Client: Apex Companies	

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	X Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

No trip blanks recieved. COC say there should be two

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

January 18, 2021

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

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92516451

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Angela 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
Michael Verdon, 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: 2020-L1-2448 Incident
Pace Project No.: 92516451

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.: 92516451

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92516451001	**MW-57D (91-101)**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451002	**EB-8**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451003	**FB-8**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451004	**Walher (101-108)**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451005	**Walher (48-55)**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451006	**Dup-9**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451007	**EB-9**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451008	**FB-9**	MADEP VPH	ACG	6	PAN
		EPA 6010D	BG2	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92516451009	**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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: MW-57D (91-101) **Lab ID: 92516451001** Collected: 01/12/21 12:10 Received: 01/13/21 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	01/16/21 06:05	01/16/21 06:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 06:05	01/16/21 06:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 06:05	01/16/21 06:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/16/21 06:05	01/16/21 06:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/16/21 06:05	01/16/21 06:05	615-59-8FID	
2,5-Dibromotoluene (PID)	95.4	%	70.0-130	1	01/16/21 06:05	01/16/21 06:05	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**124**	ug/L	5.0	1	01/14/21 14:30	01/16/21 14:14	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/15/21 14:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/15/21 14:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/15/21 14:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/15/21 14:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/15/21 14:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/15/21 14:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/15/21 14:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/15/21 14:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/15/21 14:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/15/21 14:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/15/21 14:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/15/21 14:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/15/21 14:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/15/21 14:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/15/21 14:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/15/21 14:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/15/21 14:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/15/21 14:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/15/21 14:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/15/21 14:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/15/21 14:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/15/21 14:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/15/21 14:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:09	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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: MW-57D (91-101) **Lab ID: 92516451001** Collected: 01/12/21 12:10 Received: 01/13/21 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		01/15/21 14:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/15/21 14:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/15/21 14:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/15/21 14:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/15/21 14:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/15/21 14:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/15/21 14:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/15/21 14:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/15/21 14:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/15/21 14:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/15/21 14:09	103-65-1	
Styrene	ND	ug/L	0.50	1		01/15/21 14:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/15/21 14:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/15/21 14:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/15/21 14:09	127-18-4	
Toluene	**8.0**	ug/L	0.50	1		01/15/21 14:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/15/21 14:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/15/21 14:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/15/21 14:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/15/21 14:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/15/21 14:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/15/21 14:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/15/21 14:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/15/21 14:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/15/21 14:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/15/21 14:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/15/21 14:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/15/21 14:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		01/15/21 14:09	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/15/21 14:09	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 14:09	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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: EB-8 **Lab ID: 92516451002** Collected: 01/12/21 09:45 Received: 01/13/21 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	01/16/21 03:53	01/16/21 03:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 03:53	01/16/21 03:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 03:53	01/16/21 03:53	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/16/21 03:53	01/16/21 03:53	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	98.4	%	70.0-130	1	01/16/21 03:53	01/16/21 03:53	615-59-8FID	
2,5-Dibromotoluene (PID)	92.7	%	70.0-130	1	01/16/21 03:53	01/16/21 03:53	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	01/14/21 14:30	01/16/21 14:27	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/14/21 15:29	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/14/21 15:29	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/14/21 15:29	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/14/21 15:29	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/14/21 15:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/14/21 15:29	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/14/21 15:29	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/14/21 15:29	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/14/21 15:29	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/14/21 15:29	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/14/21 15:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/14/21 15:29	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/14/21 15:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/21 15:29	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 15:29	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 15:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/14/21 15:29	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/14/21 15:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/14/21 15:29	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/14/21 15:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 15:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 15:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 15:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/14/21 15:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/14/21 15:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/14/21 15:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/14/21 15:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 15:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 15:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 15:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/14/21 15:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 15:29	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.: 92516451

Sample: EB-8 **Lab ID: 92516451002** Collected: 01/12/21 09:45 Received: 01/13/21 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		01/14/21 15:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 15:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 15:29	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/14/21 15:29	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/14/21 15:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/14/21 15:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/14/21 15:29	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/14/21 15:29	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/14/21 15:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/14/21 15:29	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/14/21 15:29	103-65-1	
Styrene	ND	ug/L	0.50	1		01/14/21 15:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 15:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 15:29	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/14/21 15:29	127-18-4	
Toluene	ND	ug/L	0.50	1		01/14/21 15:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 15:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 15:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/14/21 15:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/14/21 15:29	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/14/21 15:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/14/21 15:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/14/21 15:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 15:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 15:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/14/21 15:29	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/14/21 15:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/14/21 15:29	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/14/21 15:29	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		01/14/21 15:29	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/14/21 15:29	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.: 92516451

Sample: FB-8 **Lab ID: 92516451003** Collected: 01/12/21 00:00 Received: 01/13/21 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	01/16/21 04:26	01/16/21 04:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 04:26	01/16/21 04:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 04:26	01/16/21 04:26	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/16/21 04:26	01/16/21 04:26	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/16/21 04:26	01/16/21 04:26	615-59-8FID	
2,5-Dibromotoluene (PID)	93.1	%	70.0-130	1	01/16/21 04:26	01/16/21 04:26	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	01/14/21 14:30	01/16/21 14:43	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/14/21 15:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/14/21 15:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/14/21 15:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/14/21 15:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/14/21 15:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/14/21 15:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/14/21 15:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/14/21 15:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/14/21 15:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/14/21 15:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/14/21 15:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/14/21 15:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/14/21 15:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/21 15:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 15:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 15:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/14/21 15:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/14/21 15:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/14/21 15:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/14/21 15:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 15:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 15:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 15:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/14/21 15:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/14/21 15:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/14/21 15:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/14/21 15:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 15:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 15:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 15:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/14/21 15:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 15:47	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-L1-2448 Incident
Pace Project No.: 92516451

Sample: FB-8 **Lab ID: 92516451003** Collected: 01/12/21 00:00 Received: 01/13/21 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		01/14/21 15:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 15:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 15:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/14/21 15:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/14/21 15:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/14/21 15:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/14/21 15:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/14/21 15:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/14/21 15:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/14/21 15:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/14/21 15:47	103-65-1	
Styrene	ND	ug/L	0.50	1		01/14/21 15:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 15:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 15:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/14/21 15:47	127-18-4	
Toluene	ND	ug/L	0.50	1		01/14/21 15:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 15:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 15:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/14/21 15:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/14/21 15:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/14/21 15:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/14/21 15:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/14/21 15:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 15:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 15:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/14/21 15:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/14/21 15:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/14/21 15:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		01/14/21 15:47	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/14/21 15:47	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		01/14/21 15:47	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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: Walher (101-108) **Lab ID: 92516451004** Collected: 01/13/21 09:35 Received: 01/13/21 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)	**220**	ug/L	100	1	01/16/21 06:39	01/16/21 06:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 06:39	01/16/21 06:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 06:39	01/16/21 06:39	TPHC9C10A	
Total VPH	**350**	ug/L	100	1	01/16/21 06:39	01/16/21 06:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.8	%	70.0-130	1	01/16/21 06:39	01/16/21 06:39	615-59-8FID	
2,5-Dibromotoluene (PID)	81.2	%	70.0-130	1	01/16/21 06:39	01/16/21 06:39	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**81.4**	ug/L	5.0	1	01/14/21 14:30	01/16/21 14:46	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	2.0	4		01/15/21 17:45	71-43-2	
Bromobenzene	ND	ug/L	2.0	4		01/15/21 17:45	108-86-1	
Bromochloromethane	ND	ug/L	2.0	4		01/15/21 17:45	74-97-5	
Bromodichloromethane	**7.5**	ug/L	2.0	4		01/15/21 17:45	75-27-4	
Bromoform	ND	ug/L	2.0	4		01/15/21 17:45	75-25-2	
Bromomethane	ND	ug/L	20.0	4		01/15/21 17:45	74-83-9	
n-Butylbenzene	ND	ug/L	2.0	4		01/15/21 17:45	104-51-8	
sec-Butylbenzene	ND	ug/L	2.0	4		01/15/21 17:45	135-98-8	
tert-Butylbenzene	ND	ug/L	2.0	4		01/15/21 17:45	98-06-6	
Carbon tetrachloride	ND	ug/L	2.0	4		01/15/21 17:45	56-23-5	
Chlorobenzene	ND	ug/L	2.0	4		01/15/21 17:45	108-90-7	
Chloroethane	ND	ug/L	4.0	4		01/15/21 17:45	75-00-3	
Chloroform	**403**	ug/L	2.0	4		01/15/21 17:45	67-66-3	
Chloromethane	**4.9**	ug/L	4.0	4		01/15/21 17:45	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	4		01/15/21 17:45	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	4		01/15/21 17:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	4		01/15/21 17:45	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	4		01/15/21 17:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	4		01/15/21 17:45	106-93-4	
Dibromomethane	ND	ug/L	2.0	4		01/15/21 17:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	4		01/15/21 17:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	4		01/15/21 17:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	4		01/15/21 17:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	4		01/15/21 17:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.0	4		01/15/21 17:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	4		01/15/21 17:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.0	4		01/15/21 17:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	4		01/15/21 17:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	4		01/15/21 17:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	4		01/15/21 17:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	4		01/15/21 17:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	4		01/15/21 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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: Walher (101-108) **Lab ID: 92516451004** Collected: 01/13/21 09:35 Received: 01/13/21 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	2.0	4		01/15/21 17:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	4		01/15/21 17:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	4		01/15/21 17:45	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	4		01/15/21 17:45	108-20-3	
Ethylbenzene	ND	ug/L	2.0	4		01/15/21 17:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	8.0	4		01/15/21 17:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	2.0	4		01/15/21 17:45	98-82-8	
Methylene Chloride	ND	ug/L	8.0	4		01/15/21 17:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	2.0	4		01/15/21 17:45	1634-04-4	
Naphthalene	ND	ug/L	8.0	4		01/15/21 17:45	91-20-3	
n-Propylbenzene	ND	ug/L	2.0	4		01/15/21 17:45	103-65-1	
Styrene	ND	ug/L	2.0	4		01/15/21 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	4		01/15/21 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	4		01/15/21 17:45	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	4		01/15/21 17:45	127-18-4	
Toluene	ND	ug/L	2.0	4		01/15/21 17:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	8.0	4		01/15/21 17:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	8.0	4		01/15/21 17:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	4		01/15/21 17:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	4		01/15/21 17:45	79-00-5	
Trichloroethene	ND	ug/L	2.0	4		01/15/21 17:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		01/15/21 17:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	4		01/15/21 17:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	2.0	4		01/15/21 17:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	2.0	4		01/15/21 17:45	108-67-8	
Vinyl chloride	ND	ug/L	4.0	4		01/15/21 17:45	75-01-4	
m&p-Xylene	ND	ug/L	4.0	4		01/15/21 17:45	179601-23-1	
o-Xylene	ND	ug/L	2.0	4		01/15/21 17:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	4		01/15/21 17:45	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	4		01/15/21 17:45	460-00-4	
Toluene-d8 (S)	81	%	70-130	4		01/15/21 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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: Walher (48-55) **Lab ID: 92516451005** Collected: 01/13/21 12:05 Received: 01/13/21 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	01/16/21 07:12	01/16/21 07:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 07:12	01/16/21 07:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 07:12	01/16/21 07:12	TPHC9C10A	
Total VPH	**131**	ug/L	100	1	01/16/21 07:12	01/16/21 07:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	01/16/21 07:12	01/16/21 07:12	615-59-8FID	
2,5-Dibromotoluene (PID)	95.4	%	70.0-130	1	01/16/21 07:12	01/16/21 07:12	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	01/14/21 14:30	01/16/21 14:49	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/15/21 14:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/15/21 14:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/15/21 14:27	74-97-5	
Bromodichloromethane	**3.8**	ug/L	0.50	1		01/15/21 14:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/15/21 14:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/15/21 14:27	74-83-9	
n-Butylbenzene	**5.4**	ug/L	0.50	1		01/15/21 14:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/15/21 14:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/15/21 14:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/15/21 14:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/15/21 14:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/15/21 14:27	75-00-3	
Chloroform	**81.3**	ug/L	0.50	1		01/15/21 14:27	67-66-3	
Chloromethane	**1.1**	ug/L	1.0	1		01/15/21 14:27	74-87-3	
2-Chlorotoluene	**1.2**	ug/L	0.50	1		01/15/21 14:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/15/21 14:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/15/21 14:27	96-12-8	
Dibromochloromethane	**0.62**	ug/L	0.50	1		01/15/21 14:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/15/21 14:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/15/21 14:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/15/21 14:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/15/21 14:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/15/21 14:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:27	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.: 92516451

Sample: Walher (48-55) **Lab ID: 92516451005** Collected: 01/13/21 12:05 Received: 01/13/21 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		01/15/21 14:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/15/21 14:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/15/21 14:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/15/21 14:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/15/21 14:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/15/21 14:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/15/21 14:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/15/21 14:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/15/21 14:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/15/21 14:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/15/21 14:27	103-65-1	
Styrene	ND	ug/L	0.50	1		01/15/21 14:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/15/21 14:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/15/21 14:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/15/21 14:27	127-18-4	
Toluene	ND	ug/L	0.50	1		01/15/21 14:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/15/21 14:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/15/21 14:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/15/21 14:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/15/21 14:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/15/21 14:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/15/21 14:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/15/21 14:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/15/21 14:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/15/21 14:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/15/21 14:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/15/21 14:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/15/21 14:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/15/21 14:27	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		01/15/21 14:27	460-00-4	
Toluene-d8 (S)	86	%	70-130	1		01/15/21 14:27	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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: Dup-9 **Lab ID: 92516451006** Collected: 01/13/21 00:00 Received: 01/13/21 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	01/16/21 07:46	01/16/21 07:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 07:46	01/16/21 07:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 07:46	01/16/21 07:46	TPHC9C10A	
Total VPH	**115**	ug/L	100	1	01/16/21 07:46	01/16/21 07:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	102	%	70.0-130	1	01/16/21 07:46	01/16/21 07:46	615-59-8FID	
2,5-Dibromotoluene (PID)	94.8	%	70.0-130	1	01/16/21 07:46	01/16/21 07:46	615-59-8PID	
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Lead	**6.2**	ug/L	5.0	1	01/14/21 14:30	01/16/21 14:52	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/15/21 14:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/15/21 14:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/15/21 14:45	74-97-5	
Bromodichloromethane	**3.9**	ug/L	0.50	1		01/15/21 14:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/15/21 14:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/15/21 14:45	74-83-9	
n-Butylbenzene	**6.6**	ug/L	0.50	1		01/15/21 14:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/15/21 14:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/15/21 14:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/15/21 14:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/15/21 14:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/15/21 14:45	75-00-3	
Chloroform	**78.7**	ug/L	0.50	1		01/15/21 14:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/15/21 14:45	74-87-3	
2-Chlorotoluene	**1.3**	ug/L	0.50	1		01/15/21 14:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/15/21 14:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/15/21 14:45	96-12-8	
Dibromochloromethane	**0.62**	ug/L	0.50	1		01/15/21 14:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/15/21 14:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/15/21 14:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/15/21 14:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/15/21 14:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/15/21 14:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/15/21 14:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/15/21 14:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/15/21 14:45	594-20-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: Dup-9 **Lab ID: 92516451006** Collected: 01/13/21 00:00 Received: 01/13/21 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		01/15/21 14:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/15/21 14:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/15/21 14:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/15/21 14:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/15/21 14:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/15/21 14:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/15/21 14:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/15/21 14:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/15/21 14:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/15/21 14:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/15/21 14:45	103-65-1	
Styrene	ND	ug/L	0.50	1		01/15/21 14:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/15/21 14:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/15/21 14:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/15/21 14:45	127-18-4	
Toluene	ND	ug/L	0.50	1		01/15/21 14:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/15/21 14:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/15/21 14:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/15/21 14:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/15/21 14:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/15/21 14:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/15/21 14:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/15/21 14:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/15/21 14:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/15/21 14:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/15/21 14:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/15/21 14:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/15/21 14:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/15/21 14:45	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		01/15/21 14:45	460-00-4	
Toluene-d8 (S)	80	%	70-130	1		01/15/21 14:45	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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: EB-9 **Lab ID: 92516451007** Collected: 01/13/21 08:10 Received: 01/13/21 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	01/16/21 04:59	01/16/21 04:59		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 04:59	01/16/21 04:59		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 04:59	01/16/21 04:59	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/16/21 04:59	01/16/21 04:59	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	97.2	%	70.0-130	1	01/16/21 04:59	01/16/21 04:59	615-59-8FID	
2,5-Dibromotoluene (PID)	90.1	%	70.0-130	1	01/16/21 04:59	01/16/21 04:59	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	01/14/21 14:30	01/16/21 14:56	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/14/21 16:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/14/21 16:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/14/21 16:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/14/21 16:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/14/21 16:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/14/21 16:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/14/21 16:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/14/21 16:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/14/21 16:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/14/21 16:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/21 16:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 16:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 16:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/14/21 16:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/14/21 16:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/14/21 16:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/14/21 16:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/14/21 16:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/14/21 16:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/14/21 16:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:05	594-20-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: EB-9 **Lab ID: 92516451007** Collected: 01/13/21 08:10 Received: 01/13/21 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		01/14/21 16:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 16:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/14/21 16:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/14/21 16:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/14/21 16:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/14/21 16:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/14/21 16:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/14/21 16:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/14/21 16:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/14/21 16:05	103-65-1	
Styrene	ND	ug/L	0.50	1		01/14/21 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 16:05	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/14/21 16:05	127-18-4	
Toluene	ND	ug/L	0.50	1		01/14/21 16:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 16:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 16:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/14/21 16:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/14/21 16:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/14/21 16:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/14/21 16:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/14/21 16:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 16:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 16:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/14/21 16:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/14/21 16:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/14/21 16:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/14/21 16:05	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		01/14/21 16:05	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/14/21 16:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: FB-9 **Lab ID: 92516451008** Collected: 01/13/21 00:00 Received: 01/13/21 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	01/16/21 05:32	01/16/21 05:32		
Aliphatic (C09-C12)	ND	ug/L	100	1	01/16/21 05:32	01/16/21 05:32		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	01/16/21 05:32	01/16/21 05:32	TPHC9C10A	
Total VPH	ND	ug/L	100	1	01/16/21 05:32	01/16/21 05:32	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	101	%	70.0-130	1	01/16/21 05:32	01/16/21 05:32	615-59-8FID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	1	01/16/21 05:32	01/16/21 05:32	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	01/14/21 14:30	01/16/21 14:59	7439-92-1	
6200B MSV	Analytical Method: SM 6200B Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		01/14/21 16:23	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/14/21 16:23	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/14/21 16:23	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/14/21 16:23	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/14/21 16:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/14/21 16:23	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:23	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:23	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:23	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/14/21 16:23	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/14/21 16:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/14/21 16:23	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/14/21 16:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/21 16:23	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 16:23	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 16:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/14/21 16:23	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/14/21 16:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/14/21 16:23	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/14/21 16:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/14/21 16:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/14/21 16:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/14/21 16:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:23	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-L1-2448 Incident
Pace Project No.: 92516451

Sample: FB-9 **Lab ID: 92516451008** Collected: 01/13/21 00:00 Received: 01/13/21 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		01/14/21 16:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 16:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 16:23	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/14/21 16:23	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/14/21 16:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/14/21 16:23	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/14/21 16:23	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/14/21 16:23	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/14/21 16:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/14/21 16:23	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/14/21 16:23	103-65-1	
Styrene	ND	ug/L	0.50	1		01/14/21 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 16:23	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		01/14/21 16:23	127-18-4	
Toluene	ND	ug/L	0.50	1		01/14/21 16:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 16:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 16:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/14/21 16:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/14/21 16:23	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/14/21 16:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/14/21 16:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/14/21 16:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 16:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 16:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/14/21 16:23	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/14/21 16:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/14/21 16:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		01/14/21 16:23	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/14/21 16:23	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		01/14/21 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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: Trip Blank **Lab ID: 92516451009** Collected: 01/12/21 00:00 Received: 01/13/21 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		01/14/21 16:41	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		01/14/21 16:41	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		01/14/21 16:41	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		01/14/21 16:41	75-27-4	
Bromoform	ND	ug/L	0.50	1		01/14/21 16:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/14/21 16:41	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:41	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:41	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		01/14/21 16:41	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		01/14/21 16:41	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		01/14/21 16:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/14/21 16:41	75-00-3	
Chloroform	ND	ug/L	0.50	1		01/14/21 16:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/14/21 16:41	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 16:41	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		01/14/21 16:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		01/14/21 16:41	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		01/14/21 16:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		01/14/21 16:41	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		01/14/21 16:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		01/14/21 16:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		01/14/21 16:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		01/14/21 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		01/14/21 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		01/14/21 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		01/14/21 16:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		01/14/21 16:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		01/14/21 16:41	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		01/14/21 16:41	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		01/14/21 16:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/14/21 16:41	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		01/14/21 16:41	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		01/14/21 16:41	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		01/14/21 16:41	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		01/14/21 16:41	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		01/14/21 16:41	103-65-1	
Styrene	ND	ug/L	0.50	1		01/14/21 16:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 16:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		01/14/21 16:41	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: 2020-L1-2448 Incident
Pace Project No.: 92516451

Sample: Trip Blank **Lab ID: 92516451009** Collected: 01/12/21 00:00 Received: 01/13/21 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		01/14/21 16:41	127-18-4	
Toluene	ND	ug/L	0.50	1		01/14/21 16:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 16:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		01/14/21 16:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		01/14/21 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		01/14/21 16:41	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		01/14/21 16:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/14/21 16:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		01/14/21 16:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 16:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		01/14/21 16:41	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/14/21 16:41	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		01/14/21 16:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		01/14/21 16:41	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/14/21 16:41	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/14/21 16:41	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		01/14/21 16:41	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-L1-2448 Incident
Pace Project No.: 92516451

QC Batch: 1606397 | Analysis Method: MADEP VPH
QC Batch Method: MADEPV | Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92516451001, 92516451002, 92516451003, 92516451004, 92516451005, 92516451006, 92516451007, 92516451008

METHOD BLANK: R3613337-3 Matrix: Water
Associated Lab Samples: 92516451001, 92516451002, 92516451003, 92516451004, 92516451005, 92516451006, 92516451007, 92516451008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	01/16/21 03:20	
Aliphatic (C09-C12)	ug/L	ND	100	01/16/21 03:20	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	01/16/21 03:20	
Total VPH	ug/L	ND	100	01/16/21 03:20	
2,5-Dibromotoluene (FID)	%	91.4	70.0-130	01/16/21 03:20	
2,5-Dibromotoluene (PID)	%	84.7	70.0-130	01/16/21 03:20	

LABORATORY CONTROL SAMPLE & LCSD: R3613337-1 R3613337-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1290	1250	107	104	70.0-130	3.15	25	
Aliphatic (C09-C12)	ug/L	1400	1780	1710	127	122	70.0-130	4.01	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	230	223	115	112	70.0-130	3.09	25	
Total VPH	ug/L	2800	3300	3180	118	114	70.0-130	3.70	25	
2,5-Dibromotoluene (FID)	%				97.8	98.1	70.0-130			
2,5-Dibromotoluene (PID)	%				92.7	93.2	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
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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92516451

QC Batch: 592809 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92516451001, 92516451002, 92516451003, 92516451004, 92516451005, 92516451006, 92516451007, 92516451008

METHOD BLANK: 3128792 — Matrix: Water
Associated Lab Samples: 92516451001, 92516451002, 92516451003, 92516451004, 92516451005, 92516451006, 92516451007, 92516451008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	01/16/21 14:08	

LABORATORY CONTROL SAMPLE: 3128793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	483	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3128794 3128795

Parameter	Units	92516451001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	124	500	500	575	589	90	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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92516451

QC Batch: 592694 | Analysis Method: SM 6200B
QC Batch Method: SM 6200B | Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92516451002, 92516451003, 92516451007, 92516451008, 92516451009

METHOD BLANK: 3128162 Matrix: Water
Associated Lab Samples: 92516451002, 92516451003, 92516451007, 92516451008, 92516451009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/14/21 10:05	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/14/21 10:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/14/21 10:05	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/14/21 10:05	
1,1-Dichloroethane	ug/L	ND	0.50	01/14/21 10:05	
1,1-Dichloroethene	ug/L	ND	0.50	01/14/21 10:05	
1,1-Dichloropropene	ug/L	ND	0.50	01/14/21 10:05	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/14/21 10:05	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/14/21 10:05	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/14/21 10:05	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/14/21 10:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/14/21 10:05	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/14/21 10:05	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/14/21 10:05	
1,2-Dichloroethane	ug/L	ND	0.50	01/14/21 10:05	
1,2-Dichloropropane	ug/L	ND	0.50	01/14/21 10:05	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/14/21 10:05	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/14/21 10:05	
1,3-Dichloropropane	ug/L	ND	0.50	01/14/21 10:05	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/14/21 10:05	
2,2-Dichloropropane	ug/L	ND	0.50	01/14/21 10:05	
2-Chlorotoluene	ug/L	ND	0.50	01/14/21 10:05	
4-Chlorotoluene	ug/L	ND	0.50	01/14/21 10:05	
Benzene	ug/L	ND	0.50	01/14/21 10:05	
Bromobenzene	ug/L	ND	0.50	01/14/21 10:05	
Bromochloromethane	ug/L	ND	0.50	01/14/21 10:05	
Bromodichloromethane	ug/L	ND	0.50	01/14/21 10:05	
Bromoform	ug/L	ND	0.50	01/14/21 10:05	
Bromomethane	ug/L	ND	5.0	01/14/21 10:05	
Carbon tetrachloride	ug/L	ND	0.50	01/14/21 10:05	
Chlorobenzene	ug/L	ND	0.50	01/14/21 10:05	
Chloroethane	ug/L	ND	1.0	01/14/21 10:05	
Chloroform	ug/L	ND	0.50	01/14/21 10:05	
Chloromethane	ug/L	ND	1.0	01/14/21 10:05	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/14/21 10:05	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/14/21 10:05	
Dibromochloromethane	ug/L	ND	0.50	01/14/21 10:05	
Dibromomethane	ug/L	ND	0.50	01/14/21 10:05	
Dichlorodifluoromethane	ug/L	ND	0.50	01/14/21 10:05	
Diisopropyl ether	ug/L	ND	0.50	01/14/21 10:05	

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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.: 92516451

METHOD BLANK: 3128162 Matrix: Water
Associated Lab Samples: 92516451002, 92516451003, 92516451007, 92516451008, 92516451009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/14/21 10:05	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/14/21 10:05	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/14/21 10:05	
m&p-Xylene	ug/L	ND	1.0	01/14/21 10:05	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/14/21 10:05	
Methylene Chloride	ug/L	ND	2.0	01/14/21 10:05	
n-Butylbenzene	ug/L	ND	0.50	01/14/21 10:05	
n-Propylbenzene	ug/L	ND	0.50	01/14/21 10:05	
Naphthalene	ug/L	ND	2.0	01/14/21 10:05	
o-Xylene	ug/L	ND	0.50	01/14/21 10:05	
sec-Butylbenzene	ug/L	ND	0.50	01/14/21 10:05	
Styrene	ug/L	ND	0.50	01/14/21 10:05	
tert-Butylbenzene	ug/L	ND	0.50	01/14/21 10:05	
Tetrachloroethene	ug/L	ND	0.50	01/14/21 10:05	
Toluene	ug/L	ND	0.50	01/14/21 10:05	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/14/21 10:05	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/14/21 10:05	
Trichloroethene	ug/L	ND	0.50	01/14/21 10:05	
Trichlorofluoromethane	ug/L	ND	1.0	01/14/21 10:05	
Vinyl chloride	ug/L	ND	1.0	01/14/21 10:05	
1,2-Dichloroethane-d4 (S)	%	98	70-130	01/14/21 10:05	
4-Bromofluorobenzene (S)	%	98	70-130	01/14/21 10:05	
Toluene-d8 (S)	%	99	70-130	01/14/21 10:05	

LABORATORY CONTROL SAMPLE: 3128163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.1	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.1	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	60-140	
1,1,2-Trichloroethane	ug/L	50	52.9	106	60-140	
1,1-Dichloroethane	ug/L	50	50.7	101	60-140	
1,1-Dichloroethene	ug/L	50	54.5	109	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	55.5	111	60-140	
1,2,3-Trichloropropane	ug/L	50	49.4	99	60-140	
1,2,4-Trichlorobenzene	ug/L	50	57.0	114	60-140	
1,2,4-Trimethylbenzene	ug/L	50	55.0	110	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.7	113	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	60-140	
1,2-Dichlorobenzene	ug/L	50	53.1	106	60-140	
1,2-Dichloroethane	ug/L	50	50.3	101	60-140	
1,2-Dichloropropane	ug/L	50	53.1	106	60-140	
1,3,5-Trimethylbenzene	ug/L	50	55.9	112	60-140	

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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.: 92516451

LABORATORY CONTROL SAMPLE: 3128163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	56.6	113	60-140	
1,3-Dichloropropane	ug/L	50	53.8	108	60-140	
1,4-Dichlorobenzene	ug/L	50	52.9	106	60-140	
2,2-Dichloropropane	ug/L	50	56.7	113	60-140	
2-Chlorotoluene	ug/L	50	52.7	105	60-140	
4-Chlorotoluene	ug/L	50	55.4	111	60-140	
Benzene	ug/L	50	49.9	100	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	54.5	109	60-140	
Bromodichloromethane	ug/L	50	50.3	101	60-140	
Bromoform	ug/L	50	55.7	111	60-140	
Bromomethane	ug/L	50	45.5	91	60-140	
Carbon tetrachloride	ug/L	50	51.5	103	60-140	
Chlorobenzene	ug/L	50	51.9	104	60-140	
Chloroethane	ug/L	50	41.1	82	60-140	
Chloroform	ug/L	50	49.5	99	60-140	
Chloromethane	ug/L	50	47.3	95	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	60-140	
cis-1,3-Dichloropropene	ug/L	50	56.9	114	60-140	
Dibromochloromethane	ug/L	50	57.4	115	60-140	
Dibromomethane	ug/L	50	54.8	110	60-140	
Dichlorodifluoromethane	ug/L	50	56.9	114	60-140	
Diisopropyl ether	ug/L	50	48.2	96	60-140	
Ethylbenzene	ug/L	50	54.1	108	60-140	
Hexachloro-1,3-butadiene	ug/L	50	59.3	119	60-140	
Isopropylbenzene (Cumene)	ug/L	50	54.6	109	60-140	
m&p-Xylene	ug/L	100	110	110	60-140	
Methyl-tert-butyl ether	ug/L	50	50.4	101	60-140	
Methylene Chloride	ug/L	50	49.4	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	56.1	112	60-140	
Naphthalene	ug/L	50	53.8	108	60-140	
o-Xylene	ug/L	50	51.1	102	60-140	
sec-Butylbenzene	ug/L	50	55.8	112	60-140	
Styrene	ug/L	50	54.4	109	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	54.5	109	60-140	
Toluene	ug/L	50	53.1	106	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.6	107	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.6	111	60-140	
Trichloroethene	ug/L	50	54.0	108	60-140	
Trichlorofluoromethane	ug/L	50	48.6	97	60-140	
Vinyl chloride	ug/L	50	51.2	102	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

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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.: 92516451

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3128164 3128165

Parameter	Units	92515914002 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	2000	2000	2280	2220	114	111	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	2000	2000	2210	2210	110	111	60-140	0	
1,1,2,2-Tetrachloroethane	ug/L	ND	2000	2000	2160	2090	108	105	60-140	3	
1,1,2-Trichloroethane	ug/L	ND	2000	2000	2180	2170	109	109	60-140	1	
1,1-Dichloroethane	ug/L	ND	2000	2000	2180	2130	109	107	60-140	2	
1,1-Dichloroethene	ug/L	ND	2000	2000	2420	2390	121	120	60-140	1	
1,1-Dichloropropene	ug/L	ND	2000	2000	2320	2280	116	114	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	2000	2000	1990	2130	99	106	60-140	7	
1,2,3-Trichloropropane	ug/L	ND	2000	2000	2080	2060	104	103	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	2000	2000	2040	2130	102	107	60-140	5	
1,2,4-Trimethylbenzene	ug/L	123	2000	2000	2230	2210	105	104	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	2000	2000	2140	2140	107	107	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	2000	2000	2290	2240	115	112	60-140	3	
1,2-Dichlorobenzene	ug/L	ND	2000	2000	2100	2110	105	106	60-140	0	
1,2-Dichloroethane	ug/L	ND	2000	2000	2150	2130	108	106	60-140	1	
1,2-Dichloropropane	ug/L	ND	2000	2000	2190	2190	110	110	60-140	0	
1,3,5-Trimethylbenzene	ug/L	ND	2000	2000	2320	2300	116	115	60-140	1	
1,3-Dichlorobenzene	ug/L	ND	2000	2000	2250	2220	112	111	60-140	1	
1,3-Dichloropropane	ug/L	ND	2000	2000	2270	2180	114	109	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	2000	2000	2080	2060	104	103	60-140	1	
2,2-Dichloropropane	ug/L	ND	2000	2000	2120	2060	106	103	60-140	3	
2-Chlorotoluene	ug/L	ND	2000	2000	2190	2220	109	111	60-140	2	
4-Chlorotoluene	ug/L	ND	2000	2000	2220	2180	111	109	60-140	1	
Benzene	ug/L	ND	2000	2000	2140	2120	107	106	60-140	1	
Bromobenzene	ug/L	ND	2000	2000	2140	2160	107	108	60-140	1	
Bromochloromethane	ug/L	ND	2000	2000	2250	2240	112	112	60-140	0	
Bromodichloromethane	ug/L	ND	2000	2000	2040	2030	102	102	60-140	0	
Bromoform	ug/L	ND	2000	2000	2210	2190	111	109	60-140	1	
Bromomethane	ug/L	ND	2000	2000	1730	1850	86	92	60-140	7	
Carbon tetrachloride	ug/L	ND	2000	2000	2260	2340	113	117	60-140	3	
Chlorobenzene	ug/L	ND	2000	2000	2200	2170	110	109	60-140	1	
Chloroethane	ug/L	ND	2000	2000	2290	2190	115	110	60-140	5	
Chloroform	ug/L	ND	2000	2000	2200	2100	110	105	60-140	5	
Chloromethane	ug/L	ND	2000	2000	1870	1830	94	91	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	2000	2000	2090	2090	104	104	60-140	0	
cis-1,3-Dichloropropene	ug/L	ND	2000	2000	2270	2260	114	113	60-140	0	
Dibromochloromethane	ug/L	ND	2000	2000	2380	2280	119	114	60-140	4	
Dibromomethane	ug/L	ND	2000	2000	2240	2200	112	110	60-140	2	
Dichlorodifluoromethane	ug/L	ND	2000	2000	2250	2190	113	109	60-140	3	
Diisopropyl ether	ug/L	ND	2000	2000	2040	1990	102	99	60-140	2	
Ethylbenzene	ug/L	ND	2000	2000	2310	2280	116	114	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	2000	2000	2330	2400	117	120	60-140	3	
Isopropylbenzene (Cumene)	ug/L	ND	2000	2000	2340	2310	117	115	60-140	2	
m&p-Xylene	ug/L	ND	4000	4000	4700	4650	118	116	60-140	1	
Methyl-tert-butyl ether	ug/L	ND	2000	2000	2100	2010	105	101	60-140	4	
Methylene Chloride	ug/L	ND	2000	2000	2200	2090	110	105	60-140	5	

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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.: 92516451

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3128164 3128165

Parameter	Units	92515914002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	2000	2000	2240	2240	112	112	60-140	0	
n-Propylbenzene	ug/L	ND	2000	2000	2360	2300	118	115	60-140	3	
Naphthalene	ug/L	245	2000	2000	1950	2060	85	91	60-140	5	
o-Xylene	ug/L	ND	2000	2000	2150	2130	105	104	60-140	1	
sec-Butylbenzene	ug/L	ND	2000	2000	2340	2320	117	116	60-140	1	
Styrene	ug/L	ND	2000	2000	2250	2230	112	112	60-140	1	
tert-Butylbenzene	ug/L	ND	2000	2000	1960	1930	98	96	60-140	2	
Tetrachloroethene	ug/L	ND	2000	2000	2260	2260	113	113	60-140	0	
Toluene	ug/L	ND	2000	2000	2240	2190	112	110	60-140	2	
trans-1,2-Dichloroethene	ug/L	ND	2000	2000	2330	2280	116	114	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	2000	2000	2210	2180	110	109	60-140	1	
Trichloroethene	ug/L	ND	2000	2000	2310	2280	116	114	60-140	1	
Trichlorofluoromethane	ug/L	ND	2000	2000	2310	2280	115	114	60-140	1	
Vinyl chloride	ug/L	ND	2000	2000	2230	2200	112	110	60-140	2	
1,2-Dichloroethane-d4 (S)	%						100	98	70-130		
4-Bromofluorobenzene (S)	%						100	99	70-130		
Toluene-d8 (S)	%						99	100	70-130		

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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.: 92516451

QC Batch: 593049
QC Batch Method: SM 6200B
Analysis Method: SM 6200B
Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92516451001, 92516451004, 92516451005, 92516451006

METHOD BLANK: 3130007 Matrix: Water
Associated Lab Samples: 92516451001, 92516451004, 92516451005, 92516451006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	01/15/21 10:51	
1,1,1-Trichloroethane	ug/L	ND	0.50	01/15/21 10:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	01/15/21 10:51	
1,1,2-Trichloroethane	ug/L	ND	0.50	01/15/21 10:51	
1,1-Dichloroethane	ug/L	ND	0.50	01/15/21 10:51	
1,1-Dichloroethene	ug/L	ND	0.50	01/15/21 10:51	
1,1-Dichloropropene	ug/L	ND	0.50	01/15/21 10:51	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	01/15/21 10:51	
1,2,3-Trichloropropane	ug/L	ND	0.50	01/15/21 10:51	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	01/15/21 10:51	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	01/15/21 10:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	01/15/21 10:51	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	01/15/21 10:51	
1,2-Dichlorobenzene	ug/L	ND	0.50	01/15/21 10:51	
1,2-Dichloroethane	ug/L	ND	0.50	01/15/21 10:51	
1,2-Dichloropropane	ug/L	ND	0.50	01/15/21 10:51	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	01/15/21 10:51	
1,3-Dichlorobenzene	ug/L	ND	0.50	01/15/21 10:51	
1,3-Dichloropropane	ug/L	ND	0.50	01/15/21 10:51	
1,4-Dichlorobenzene	ug/L	ND	0.50	01/15/21 10:51	
2,2-Dichloropropane	ug/L	ND	0.50	01/15/21 10:51	
2-Chlorotoluene	ug/L	ND	0.50	01/15/21 10:51	
4-Chlorotoluene	ug/L	ND	0.50	01/15/21 10:51	
Benzene	ug/L	ND	0.50	01/15/21 10:51	
Bromobenzene	ug/L	ND	0.50	01/15/21 10:51	
Bromochloromethane	ug/L	ND	0.50	01/15/21 10:51	
Bromodichloromethane	ug/L	ND	0.50	01/15/21 10:51	
Bromoform	ug/L	ND	0.50	01/15/21 10:51	
Bromomethane	ug/L	ND	5.0	01/15/21 10:51	
Carbon tetrachloride	ug/L	ND	0.50	01/15/21 10:51	
Chlorobenzene	ug/L	ND	0.50	01/15/21 10:51	
Chloroethane	ug/L	ND	1.0	01/15/21 10:51	
Chloroform	ug/L	ND	0.50	01/15/21 10:51	
Chloromethane	ug/L	ND	1.0	01/15/21 10:51	
cis-1,2-Dichloroethene	ug/L	ND	0.50	01/15/21 10:51	
cis-1,3-Dichloropropene	ug/L	ND	0.50	01/15/21 10:51	
Dibromochloromethane	ug/L	ND	0.50	01/15/21 10:51	
Dibromomethane	ug/L	ND	0.50	01/15/21 10:51	
Dichlorodifluoromethane	ug/L	ND	0.50	01/15/21 10:51	
Diisopropyl ether	ug/L	ND	0.50	01/15/21 10:51	

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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.: 92516451

METHOD BLANK: 3130007 Matrix: Water
Associated Lab Samples: 92516451001, 92516451004, 92516451005, 92516451006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	01/15/21 10:51	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/15/21 10:51	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	01/15/21 10:51	
m&p-Xylene	ug/L	ND	1.0	01/15/21 10:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	01/15/21 10:51	
Methylene Chloride	ug/L	ND	2.0	01/15/21 10:51	
n-Butylbenzene	ug/L	ND	0.50	01/15/21 10:51	
n-Propylbenzene	ug/L	ND	0.50	01/15/21 10:51	
Naphthalene	ug/L	ND	2.0	01/15/21 10:51	
o-Xylene	ug/L	ND	0.50	01/15/21 10:51	
sec-Butylbenzene	ug/L	ND	0.50	01/15/21 10:51	
Styrene	ug/L	ND	0.50	01/15/21 10:51	
tert-Butylbenzene	ug/L	ND	0.50	01/15/21 10:51	
Tetrachloroethene	ug/L	ND	0.50	01/15/21 10:51	
Toluene	ug/L	ND	0.50	01/15/21 10:51	
trans-1,2-Dichloroethene	ug/L	ND	0.50	01/15/21 10:51	
trans-1,3-Dichloropropene	ug/L	ND	0.50	01/15/21 10:51	
Trichloroethene	ug/L	ND	0.50	01/15/21 10:51	
Trichlorofluoromethane	ug/L	ND	1.0	01/15/21 10:51	
Vinyl chloride	ug/L	ND	1.0	01/15/21 10:51	
1,2-Dichloroethane-d4 (S)	%	97	70-130	01/15/21 10:51	
4-Bromofluorobenzene (S)	%	98	70-130	01/15/21 10:51	
Toluene-d8 (S)	%	101	70-130	01/15/21 10:51	

LABORATORY CONTROL SAMPLE: 3130008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.7	107	60-140	
1,1,1-Trichloroethane	ug/L	50	51.3	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	60-140	
1,1,2-Trichloroethane	ug/L	50	52.9	106	60-140	
1,1-Dichloroethane	ug/L	50	50.2	100	60-140	
1,1-Dichloroethene	ug/L	50	53.5	107	60-140	
1,1-Dichloropropene	ug/L	50	50.4	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	51.2	102	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.4	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	53.3	107	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.7	113	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	52.1	104	60-140	
1,2-Dichloroethane	ug/L	50	50.4	101	60-140	
1,2-Dichloropropane	ug/L	50	51.6	103	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.6	107	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.: 92516451

LABORATORY CONTROL SAMPLE: 3130008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	55.0	110	60-140	
1,3-Dichloropropane	ug/L	50	53.2	106	60-140	
1,4-Dichlorobenzene	ug/L	50	51.7	103	60-140	
2,2-Dichloropropane	ug/L	50	55.8	112	60-140	
2-Chlorotoluene	ug/L	50	50.6	101	60-140	
4-Chlorotoluene	ug/L	50	52.9	106	60-140	
Benzene	ug/L	50	49.8	100	60-140	
Bromobenzene	ug/L	50	50.8	102	60-140	
Bromochloromethane	ug/L	50	55.9	112	60-140	
Bromodichloromethane	ug/L	50	49.3	99	60-140	
Bromoform	ug/L	50	55.4	111	60-140	
Bromomethane	ug/L	50	45.9	92	60-140	
Carbon tetrachloride	ug/L	50	52.0	104	60-140	
Chlorobenzene	ug/L	50	51.6	103	60-140	
Chloroethane	ug/L	50	41.1	82	60-140	
Chloroform	ug/L	50	47.7	95	60-140	
Chloromethane	ug/L	50	45.2	90	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	60-140	
cis-1,3-Dichloropropene	ug/L	50	55.9	112	60-140	
Dibromochloromethane	ug/L	50	57.2	114	60-140	
Dibromomethane	ug/L	50	53.2	106	60-140	
Dichlorodifluoromethane	ug/L	50	57.5	115	60-140	
Diisopropyl ether	ug/L	50	47.2	94	60-140	
Ethylbenzene	ug/L	50	53.4	107	60-140	
Hexachloro-1,3-butadiene	ug/L	50	57.5	115	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.0	106	60-140	
m&p-Xylene	ug/L	100	110	110	60-140	
Methyl-tert-butyl ether	ug/L	50	50.1	100	60-140	
Methylene Chloride	ug/L	50	47.9	96	60-140	
n-Butylbenzene	ug/L	50	55.2	110	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	54.2	108	60-140	
o-Xylene	ug/L	50	49.9	100	60-140	
sec-Butylbenzene	ug/L	50	53.8	108	60-140	
Styrene	ug/L	50	53.1	106	60-140	
tert-Butylbenzene	ug/L	50	44.8	90	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	51.9	104	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.2	104	60-140	
trans-1,3-Dichloropropene	ug/L	50	55.3	111	60-140	
Trichloroethene	ug/L	50	53.5	107	60-140	
Trichlorofluoromethane	ug/L	50	48.3	97	60-140	
Vinyl chloride	ug/L	50	49.8	100	60-140	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

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

REPORT OF LABORATORY ANALYSIS

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.: 92516451

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3130009 3130010

Parameter	Units	92516625001 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	200	200	224	227	112	113	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	200	200	220	219	110	110	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	214	211	107	105	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	200	200	217	216	108	108	60-140	1	
1,1-Dichloroethane	ug/L	ND	200	200	208	208	104	104	60-140	0	
1,1-Dichloroethene	ug/L	ND	200	200	234	228	117	114	60-140	3	
1,1-Dichloropropene	ug/L	ND	200	200	226	228	113	114	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	224	223	112	111	60-140	1	
1,2,3-Trichloropropane	ug/L	ND	200	200	224	216	112	108	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	222	229	111	114	60-140	3	
1,2,4-Trimethylbenzene	ug/L	1200	200	200	1390	1430	95	114	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	233	231	117	116	60-140	1	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	228	227	114	113	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	200	200	209	211	105	106	60-140	1	
1,2-Dichloroethane	ug/L	12.1	200	200	221	217	105	103	60-140	2	
1,2-Dichloropropane	ug/L	ND	200	200	220	221	110	110	60-140	0	
1,3,5-Trimethylbenzene	ug/L	395	200	200	604	630	104	118	60-140	4	
1,3-Dichlorobenzene	ug/L	ND	200	200	220	224	110	112	60-140	2	
1,3-Dichloropropane	ug/L	ND	200	200	217	221	109	110	60-140	2	
1,4-Dichlorobenzene	ug/L	ND	200	200	205	212	103	106	60-140	3	
2,2-Dichloropropane	ug/L	ND	200	200	208	203	104	102	60-140	3	
2-Chlorotoluene	ug/L	ND	200	200	272	284	136	142	60-140	4	M1
4-Chlorotoluene	ug/L	ND	200	200	212	221	106	111	60-140	4	
Benzene	ug/L	797	200	200	962	989	83	96	60-140	3	
Bromobenzene	ug/L	ND	200	200	210	219	105	109	60-140	4	
Bromochloromethane	ug/L	ND	200	200	230	224	115	112	60-140	3	
Bromodichloromethane	ug/L	ND	200	200	205	205	103	103	60-140	0	
Bromoform	ug/L	ND	200	200	226	223	113	111	60-140	1	
Bromomethane	ug/L	ND	200	200	159	175	79	87	60-140	10	
Carbon tetrachloride	ug/L	ND	200	200	225	231	112	115	60-140	3	
Chlorobenzene	ug/L	ND	200	200	218	220	109	110	60-140	1	
Chloroethane	ug/L	ND	200	200	215	210	107	105	60-140	2	
Chloroform	ug/L	ND	200	200	217	209	108	105	60-140	4	
Chloromethane	ug/L	ND	200	200	163	153	81	77	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	200	200	206	207	103	103	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	200	200	226	223	113	112	60-140	1	
Dibromochloromethane	ug/L	ND	200	200	236	233	118	117	60-140	1	
Dibromomethane	ug/L	ND	200	200	232	235	116	117	60-140	1	
Dichlorodifluoromethane	ug/L	ND	200	200	219	217	109	108	60-140	1	
Diisopropyl ether	ug/L	107	200	200	295	288	94	91	60-140	2	
Ethylbenzene	ug/L	1780	200	200	1960	1980	91	103	60-140	1	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	248	264	124	132	60-140	6	
Isopropylbenzene (Cumene)	ug/L	74.9	200	200	306	310	115	118	60-140	2	
m&p-Xylene	ug/L	1440	400	400	1870	1890	107	114	60-140	1	
Methyl-tert-butyl ether	ug/L	5.0	200	200	207	202	101	98	60-140	3	
Methylene Chloride	ug/L	ND	200	200	203	196	102	98	60-140	3	

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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.: 92516451

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3130009 3130010

Parameter	Units	92516625001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
n-Butylbenzene	ug/L	ND	200	200	249	255	124	127	60-140	2	
n-Propylbenzene	ug/L	162	200	200	375	391	106	114	60-140	4	
Naphthalene	ug/L	305	200	200	512	551	103	123	60-140	7	
o-Xylene	ug/L	97.9	200	200	311	311	106	107	60-140	0	
sec-Butylbenzene	ug/L	ND	200	200	243	245	122	123	60-140	1	
Styrene	ug/L	ND	200	200	223	221	111	111	60-140	1	
tert-Butylbenzene	ug/L	ND	200	200	193	198	96	99	60-140	3	
Tetrachloroethene	ug/L	ND	200	200	236	234	118	117	60-140	1	
Toluene	ug/L	38.0	200	200	263	261	112	112	60-140	1	
trans-1,2-Dichloroethene	ug/L	ND	200	200	224	217	112	109	60-140	3	
trans-1,3-Dichloropropene	ug/L	ND	200	200	216	217	108	108	60-140	1	
Trichloroethene	ug/L	ND	200	200	231	237	116	119	60-140	3	
Trichlorofluoromethane	ug/L	ND	200	200	237	229	119	115	60-140	3	
Vinyl chloride	ug/L	ND	200	200	204	203	102	101	60-140	0	
1,2-Dichloroethane-d4 (S)	%						101	94	70-130		
4-Bromofluorobenzene (S)	%						100	98	70-130		
Toluene-d8 (S)	%						99	98	70-130		

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 2020-L1-2448 Incident
Pace Project No.: 92516451

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.: 92516451

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92516451001	**MW-57D (91-101)**	MADEPV	1606397	MADEP VPH	1606397
92516451002	**EB-8**	MADEPV	1606397	MADEP VPH	1606397
92516451003	**FB-8**	MADEPV	1606397	MADEP VPH	1606397
92516451004	**Walher (101-108)**	MADEPV	1606397	MADEP VPH	1606397
92516451005	**Walher (48-55)**	MADEPV	1606397	MADEP VPH	1606397
92516451006	**Dup-9**	MADEPV	1606397	MADEP VPH	1606397
92516451007	**EB-9**	MADEPV	1606397	MADEP VPH	1606397
92516451008	**FB-9**	MADEPV	1606397	MADEP VPH	1606397
92516451001	**MW-57D (91-101)**	EPA 3010A	592809	EPA 6010D	592866
92516451002	**EB-8**	EPA 3010A	592809	EPA 6010D	592866
92516451003	**FB-8**	EPA 3010A	592809	EPA 6010D	592866
92516451004	**Walher (101-108)**	EPA 3010A	592809	EPA 6010D	592866
92516451005	**Walher (48-55)**	EPA 3010A	592809	EPA 6010D	592866
92516451006	**Dup-9**	EPA 3010A	592809	EPA 6010D	592866
92516451007	**EB-9**	EPA 3010A	592809	EPA 6010D	592866
92516451008	**FB-9**	EPA 3010A	592809	EPA 6010D	592866
92516451001	**MW-57D (91-101)**	SM 6200B	593049		
92516451002	**EB-8**	SM 6200B	592694		
92516451003	**FB-8**	SM 6200B	592694		
92516451004	**Walher (101-108)**	SM 6200B	593049		
92516451005	**Walher (48-55)**	SM 6200B	593049		
92516451006	**Dup-9**	SM 6200B	593049		
92516451007	**EB-9**	SM 6200B	592694		
92516451008	**FB-9**	SM 6200B	592694		
92516451009	**Trip Blank**	SM 6200B	592694		

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 Lab
MTJL Log-in
12480
ALL SHADED AREAS a

WO# : 92516451
92516451

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: 2020-11-2448 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 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)

** 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	Container Preservative Type **	Analyses: VOCs 6200B	Analyses: MADEP VPH	Analyses: Lead	Lab Sample # / Comments
MW-57D (94-101)'	GW	G	1-12-21	1210				8		X	X	X	001
EB-8	OT	G		9:45				8		X	X	X	002
FB-8	OT	G		-				8		X	X	X	003
Trip Blank	OT	G		-				2		X			009
Walker (101-108)'	GW	G	1-13-21	0935				8		X	X	X	004
Walker (48-55)'	GW	G		1205				8		X	X	X	005
DUP-9	GW	G		-				8		X	X	X	006
EB-9	OT	G		0810				8		X	X	X	007
FB-9	OT	G		-				8		X	X	X	008

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: 2525180AV			
Sulfide Present	Y	N	(NA)
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # / Comments:
92516451

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: None/BB

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

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

Lab Tracking #: 2529469

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92506
Cooler 1 Temp Upon Receipt: 1.3 oC
Cooler 1 Therm Corr. Factor: 0.1 oC
Cooler 1 Corrected Temp: 1.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Naomi Fritz Apex	1-13-21 1415	MDG Pace HVL	1-13-21 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: _____

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

12480

ALL SHADED AREAS are for LAB USE ONLY

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: 2020-11-2448 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):	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: VOCs 6200B	Analyses: MADEP VPH	Analyses: Lead	Lab Sample # / Comments
MW-57D (94-101)'	GW	G	1-12-21	1210				8	X	X	X	92516451 001
EB-8	OT	G		9:45				8	X	X	X	002
FB-8	OT	G		-				8	X	X	X	003
Trip Blank	OT	G	↓	-				2	X			009
Walker (101-108)'	GW	G	1-13-21	0935				8	X	X	X	004
Walker (48-55)'	GW	G		1205				8	X	X	X	005
DUP-9	GW	G		-				8	X	X	X	006
EB-9	OT	G		0810				8	X	X	X	007
FB-9	OT	G	↓	~~1215~~ 0815				8	X	X	X	008

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:

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

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

Lab Tracking #: 2529469

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____oC

Cooler 1 Therm Corr. Factor: _____oC

Cooler 1 Corrected Temp: _____oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Name Apex	1-13-21 1415	MDG Pace HVL	1-13-21 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 Services, LLC
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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

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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
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(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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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
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: 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
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(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
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(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		

WO# : 92512726

92512726

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

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

LAB USE ONLY- AL

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 _____

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: BTEX Method 8026	Analyses: TPH Gro Method 8015	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-TBrip Blank	W	—	12/17/20	LAB				2	X		011

Lab Profile/Line:

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#: 92706V

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:	Received by/Company: (Signature)	Date/Time:
	12/17/20	LDH PACE HVL	12/17/20 1633
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: _____

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 Sandy Springs GA 30350
Address: 400 Northridge Rd Suite 400	
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: _____

* 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

Lab Profile/Line:

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 Method 8026	TPH Gro Method 8015	Lab Profile/Line
20352-SW-DVP	SW	G	12/17/20	12:00	—	—	(pH)	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:
92512726

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

January 04, 2021

Alex Testoff
Montrose Environmental Group, Inc.
400 Northridge Rd.
Suite 400
Atlanta, GA 30350

RE: Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Dear Alex Testoff:

Enclosed are the analytical results for sample(s) received by the laboratory on December 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 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/070PP-7853
Pace Project No.: 92514289

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/070PP-7853
Pace Project No.: 92514289

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514289001	**20365-SW-1**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289002	**20365-SW-2**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289003	**20365-SW-3**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289004	**20365-SW-4**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289005	**20365-SW-5**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289006	**20365-SW-6**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289007	**20365-SW-7**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289008	**20365-SW-Confluence**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289009	**20365-SW-Seep**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289010	**20365-SW-Dup**	EPA 5030B/8015C Mod.	LMB	2	PASI-C
		EPA 8260D	PM1	9	PASI-C
92514289011	**20365-Trip Blank**	EPA 8260D	PM1	9	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-1 **Lab ID: 92514289001** Collected: 12/30/20 12:25 Received: 12/30/20 15:04 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		12/31/20 14:07		
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		12/31/20 14:07	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 02:21	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 02:21	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 02:21	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 02:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 02:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 02:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/31/20 02:21	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		12/31/20 02:21	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		12/31/20 02:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-2 **Lab ID: 92514289002** Collected: 12/30/20 12:25 Received: 12/30/20 15:04 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		12/31/20 15:03		
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/31/20 15:03	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 02:39	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 02:39	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 02:39	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 02:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 02:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 02:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/31/20 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		12/31/20 02:39	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		12/31/20 02:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-3 **Lab ID: 92514289003** Collected: 12/30/20 12:55 Received: 12/30/20 15:04 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		12/31/20 15:31		
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		12/31/20 15:31	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 02:57	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 02:57	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 02:57	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 02:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 02:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 02:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/31/20 02:57	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		12/31/20 02:57	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		12/31/20 02:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-4 **Lab ID: 92514289004** Collected: 12/30/20 13:35 Received: 12/30/20 15:04 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		12/31/20 15:59		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		12/31/20 15:59	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 03:15	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 03:15	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 03:15	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 03:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 03:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 03:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/31/20 03:15	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		12/31/20 03:15	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		12/31/20 03:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-5 **Lab ID: 92514289005** Collected: 12/30/20 14:00 Received: 12/30/20 15:04 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		12/31/20 16:27		
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		12/31/20 16:27	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 03:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 03:33	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 03:33	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 03:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 03:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 03:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/31/20 03:33	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		12/31/20 03:33	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/31/20 03:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-6 **Lab ID: 92514289006** Collected: 12/30/20 14:15 Received: 12/30/20 15:04 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		12/31/20 16:55		
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/31/20 16:55	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 03:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 03:51	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 03:51	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 03:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 03:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 03:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/31/20 03:51	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		12/31/20 03:51	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		12/31/20 03:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-7 **Lab ID: 92514289007** Collected: 12/30/20 14:30 Received: 12/30/20 15:04 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		12/31/20 17:24		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/31/20 17:24	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 04:09	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 04:09	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 04:09	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 04:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 04:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 04:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		12/31/20 04:09	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		12/31/20 04:09	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		12/31/20 04:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-Confluence **Lab ID: 92514289008** Collected: 12/30/20 11:20 Received: 12/30/20 15:04 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		12/31/20 17:52		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/31/20 17:52	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 04:27	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 04:27	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 04:27	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 04:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 04:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 04:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/31/20 04:27	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		12/31/20 04:27	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/31/20 04:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-Seep **Lab ID: 92514289009** Collected: 12/30/20 11:30 Received: 12/30/20 15:04 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		12/31/20 18:20		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/31/20 18:20	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 04:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 04:45	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 04:45	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 04:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 04:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 04:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		12/31/20 04:45	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/31/20 04:45	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		12/31/20 04:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-SW-Dup **Lab ID: 92514289010** Collected: 12/30/20 12:00 Received: 12/30/20 15:04 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		12/31/20 18:48		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		12/31/20 18:48	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		12/31/20 05:03	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 05:03	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 05:03	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 05:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 05:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 05:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/31/20 05:03	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		12/31/20 05:03	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		12/31/20 05:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

Sample: 20365-Trip Blank **Lab ID: 92514289011** Collected: 12/30/20 00:00 Received: 12/30/20 15:04 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		12/31/20 02:03	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/31/20 02:03	100-41-4	
Toluene	ND	ug/L	1.0	1		12/31/20 02:03	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		12/31/20 02:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/31/20 02:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/31/20 02:03	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/31/20 02:03	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		12/31/20 02:03	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		12/31/20 02:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

QC Batch: 590238 | 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: 92514289001, 92514289002, 92514289003, 92514289004, 92514289005, 92514289006, 92514289007, 92514289008, 92514289009, 92514289010

METHOD BLANK: 3116751 Matrix: Water
Associated Lab Samples: 92514289001, 92514289002, 92514289003, 92514289004, 92514289005, 92514289006, 92514289007, 92514289008, 92514289009, 92514289010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	12/31/20 13:39	
4-Bromofluorobenzene (S)	%	93	70-130	12/31/20 13:39	

LABORATORY CONTROL SAMPLE: 3116752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.97	97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	

MATRIX SPIKE SAMPLE: 3116754

Parameter	Units	92514289002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.95	93	68-145	
4-Bromofluorobenzene (S)	%				98	70-130	

SAMPLE DUPLICATE: 3116753

Parameter	Units	92514289001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		
4-Bromofluorobenzene (S)	%	93	92		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Colonial Northstone/070PP-7853
Pace Project No.: 92514289

QC Batch: 590146
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514289001, 92514289002, 92514289003, 92514289004, 92514289005, 92514289006, 92514289007, 92514289008, 92514289009, 92514289010, 92514289011

METHOD BLANK: 3116419 Matrix: Water
Associated Lab Samples: 92514289001, 92514289002, 92514289003, 92514289004, 92514289005, 92514289006, 92514289007, 92514289008, 92514289009, 92514289010, 92514289011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/30/20 21:15	
Ethylbenzene	ug/L	ND	1.0	12/30/20 21:15	
m&p-Xylene	ug/L	ND	2.0	12/30/20 21:15	
o-Xylene	ug/L	ND	1.0	12/30/20 21:15	
Toluene	ug/L	ND	1.0	12/30/20 21:15	
Xylene (Total)	ug/L	ND	1.0	12/30/20 21:15	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/30/20 21:15	
4-Bromofluorobenzene (S)	%	99	70-130	12/30/20 21:15	
Toluene-d8 (S)	%	104	70-130	12/30/20 21:15	

LABORATORY CONTROL SAMPLE: 3116420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.4	95	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
m&p-Xylene	ug/L	100	98.5	99	70-130	
o-Xylene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	47.4	95	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3116421 3116422

Parameter	Units	92514289010 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	19.3	21.0	97	105	67-150	8	
Ethylbenzene	ug/L	ND	20	20	19.6	20.9	98	105	68-143	6	
m&p-Xylene	ug/L	ND	40	40	39.5	42.8	99	107	53-157	8	
o-Xylene	ug/L	ND	20	20	20.3	21.6	101	108	68-143	6	
Toluene	ug/L	ND	20	20	18.8	21.1	94	105	47-157	11	
Xylene (Total)	ug/L	ND	60	60	59.7	64.3	100	107	66-145	7	
1,2-Dichloroethane-d4 (S)	%						106	106	70-130		
4-Bromofluorobenzene (S)	%						102	99	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/070PP-7853
Pace Project No.: 92514289

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/070PP-7853
Pace Project No.: 92514289

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514289001	**20365-SW-1**	EPA 5030B/8015C Mod.	590238		
92514289002	**20365-SW-2**	EPA 5030B/8015C Mod.	590238		
92514289003	**20365-SW-3**	EPA 5030B/8015C Mod.	590238		
92514289004	**20365-SW-4**	EPA 5030B/8015C Mod.	590238		
92514289005	**20365-SW-5**	EPA 5030B/8015C Mod.	590238		
92514289006	**20365-SW-6**	EPA 5030B/8015C Mod.	590238		
92514289007	**20365-SW-7**	EPA 5030B/8015C Mod.	590238		
92514289008	**20365-SW-Confluence**	EPA 5030B/8015C Mod.	590238		
92514289009	**20365-SW-Seep**	EPA 5030B/8015C Mod.	590238		
92514289010	**20365-SW-Dup**	EPA 5030B/8015C Mod.	590238		
92514289001	**20365-SW-1**	EPA 8260D	590146		
92514289002	**20365-SW-2**	EPA 8260D	590146		
92514289003	**20365-SW-3**	EPA 8260D	590146		
92514289004	**20365-SW-4**	EPA 8260D	590146		
92514289005	**20365-SW-5**	EPA 8260D	590146		
92514289006	**20365-SW-6**	EPA 8260D	590146		
92514289007	**20365-SW-7**	EPA 8260D	590146		
92514289008	**20365-SW-Confluence**	EPA 8260D	590146		
92514289009	**20365-SW-Seep**	EPA 8260D	590146		
92514289010	**20365-SW-Dup**	EPA 8260D	590146		
92514289011	**20365-Trip Blank**	EPA 8260D	590146		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ... imber or

WO# : 92514289

92514289

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: atestoff@montrose-env.com	Site Collection Info/Address: Huntersville
Customer Project Name/Number: Colonial Northstone/070PP-785322	State: NC / County/City: Huntersville / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: ~~980~~ 315-9113 PHS 404 / Email:	Site/Facility ID #:
Collected By (print): Cameron Lee Peyton Hillman	Purchase Order #: / Quote #:
Collected By (signature): Peyton Hillman	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: _____

* 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 Method 8026	TPH GRO Method 8015								Lab Sample # / Comments
								Contain	3	3								
20365-SW-1	SW	G	12/30/20	12:25				6	X	X								001
20365-SW-2	SW	G	12/30/20	12:40				6	X	X								002
20365-SW-3	SW	G	12/30/20	12:55				6	X	X								003
20365-SW-4	SW	G	12/30/20	13:35				6	X	X								004
20365-SW-5	SW	G	12/30/20	14:00				6	X	X								005
20365-SW-6	SW	G	12/30/20	14:15				6	X	X								006
20365-SW-7	SW	G	12/30/20	14:30				6	X	X								007
20365-SW-Confluence	SW	G	12/30/20	11:20				6	X	X								008
20365-SW-Seep	SW	G	12/30/20	11:30				6	X	X								009
20365-Trip Blank	W	—	12/30/20	LAB				2	X									011

** 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:

Customer Remarks / Special Conditions / Possible Hazards:

SW = Surface Water
W = Water
G = Grab

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Bubble bags + Bubble wrap

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

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

Lab Tracking #: 2538759

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: 5.4 oC

Cooler 1 Therm Corr. Factor: -0.1 oC

Cooler 1 Corrected Temp: 5.3 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Peyton Hillman	12/30/20	AMP PACE HVL	15:09 12-30-20

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

WO# : 92514289

PM: NMG Due Date: 01/07/21

CLIENT: 92-MontEnvGr

LAB USE C ... nber or

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: atestoff@montrose-env.com	Site Collection Info/Address: Huntersville
Customer Project Name/Number: Colonial Northstone/07opp-785322	State: NC / County/City: / Time Zone Collected: [ ] PT [ ] MT [ ] CT [✓] ET
Phone: 404-315-9113 Email:	Site/Facility ID #:
Collected By (print): Cameron Lee 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: _____

* 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 Method 8021 B	TPH GRO Method 8015							
20365-SW-Dup	SW	G	12/30/20	12:00	-	-		6	X	X							010

Containers: 3 3

** 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:
92514289

Customer Remarks / Special Conditions / Possible Hazards:
SW = surface water
W = water
G = Grab

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Bubble bags + Bubble wrap

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

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

Lab Tracking #: 2538757

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: 5.4 oC
Cooler 1 Therm Corr. Factor: -0.1 oC
Cooler 1 Corrected Temp: 5.3 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Peyton Hillman	12/30/20	AMP PACE HVL	12-30-20 15:09
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)	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																6													
2																6													
3																6													
4																6													
5																6													
6																6													
7																6													
8																6													
9																6													
10																2													
11																6													
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

January 18, 2021

Alex Testoff
Montrose Environmental Group, Inc.
400 Northridge Rd.
Suite 400
Atlanta, GA 30350

RE: Project: Colonial Northstone
Pace Project No.: 92516740

Dear Alex Testoff:

Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,

Nicole Gasiorowski

Nicole Gasiorowski
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
Pace Project No.: 92516740

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
Pace Project No.: 92516740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92516740001	**21014-SW-1**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740002	**21014-SW-2**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740003	**21014-SW-3**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740004	**21014-SW-4**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740005	**21014-SW-5**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740006	**21014-SW-6**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740007	**21014-SW-7**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740008	**21014-SW-Confluence**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740009	**21014-SW-Seep**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740010	**21014-SW-DUP**	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	CL	9	PASI-C
92516740011	**21014-Trio Blank**	EPA 8260D	CL	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
Pace Project No.: 92516740

Sample: 21014-SW-1 **Lab ID: 92516740001** Collected: 01/14/21 12:25 Received: 01/14/21 14:55 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		01/16/21 16:55		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		01/16/21 16:55	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 14:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 14:36	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 14:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 14:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 14:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 14:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/15/21 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/15/21 14:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 14:36	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 Northstone
Pace Project No.: 92516740

Sample: 21014-SW-2 **Lab ID: 92516740002** Collected: 01/14/21 12:45 Received: 01/14/21 14:55 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		01/16/21 17:51		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		01/16/21 17:51	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 14:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 14:18	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 14:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 14:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 14:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 14:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/15/21 14:18	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/15/21 14:18	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 14:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-3 **Lab ID: 92516740003** Collected: 01/14/21 12:55 Received: 01/14/21 14:55 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		01/16/21 18:19		
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		01/16/21 18:19	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 15:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 15:13	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 15:13	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 15:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 15:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 15:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/15/21 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/15/21 15:13	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 15:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-4 **Lab ID: 92516740004** Collected: 01/14/21 13:10 Received: 01/14/21 14:55 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		01/16/21 18:47		
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		01/16/21 18:47	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 14:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 14:54	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 14:54	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 14:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 14:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 14:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/15/21 14:54	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		01/15/21 14:54	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 14:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-5 **Lab ID: 92516740005** Collected: 01/14/21 13:25 Received: 01/14/21 14:55 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		01/16/21 19:15		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		01/16/21 19:15	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 15:49	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 15:49	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 15:49	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 15:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 15:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 15:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		01/15/21 15:49	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/15/21 15:49	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 15:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-6 **Lab ID: 92516740006** Collected: 01/14/21 13:40 Received: 01/14/21 14:55 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		01/16/21 19:43		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		01/16/21 19:43	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 15:31	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 15:31	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 15:31	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 15:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 15:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 15:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/15/21 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/15/21 15:31	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 15:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-7 **Lab ID: 92516740007** Collected: 01/14/21 13:55 Received: 01/14/21 14:55 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		01/16/21 20:11		
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		01/16/21 20:11	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 16:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 16:25	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 16:25	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 16:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 16:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 16:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/15/21 16:25	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/15/21 16:25	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		01/15/21 16:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-Confluence **Lab ID: 92516740008** Collected: 01/14/21 11:25 Received: 01/14/21 14:55 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		01/16/21 20:39		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		01/16/21 20:39	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 16:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 16:07	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 16:07	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 16:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 16:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 16:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		01/15/21 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		01/15/21 16:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 16:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-Seep **Lab ID: 92516740009** Collected: 01/14/21 11:30 Received: 01/14/21 14:55 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		01/16/21 21:07		
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		01/16/21 21:07	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 17:01	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 17:01	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 17:01	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 17:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 17:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 17:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/15/21 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/15/21 17:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 17:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-SW-DUP **Lab ID: 92516740010** Collected: 01/14/21 12:00 Received: 01/14/21 14:55 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		01/16/21 21:35		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		01/16/21 21:35	460-00-4	
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	1.0	1		01/15/21 16:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 16:43	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 16:43	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 16:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 16:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 16:43	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		01/15/21 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/15/21 16:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 16:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone
Pace Project No.: 92516740

Sample: 21014-Trio Blank **Lab ID: 92516740011** Collected: 01/14/21 00:00 Received: 01/14/21 14:55 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		01/15/21 14:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/15/21 14:00	100-41-4	
Toluene	ND	ug/L	1.0	1		01/15/21 14:00	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		01/15/21 14:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/15/21 14:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/15/21 14:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		01/15/21 14:00	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		01/15/21 14:00	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/15/21 14:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Colonial Northstone
Pace Project No.: 92516740

QC Batch: 593264 | 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: 92516740001, 92516740002, 92516740003, 92516740004, 92516740005, 92516740006, 92516740007, 92516740008, 92516740009, 92516740010

METHOD BLANK: 3131156 Matrix: Water
Associated Lab Samples: 92516740001, 92516740002, 92516740003, 92516740004, 92516740005, 92516740006, 92516740007, 92516740008, 92516740009, 92516740010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	01/16/21 14:34	
4-Bromofluorobenzene (S)	%	91	70-130	01/16/21 14:34	

LABORATORY CONTROL SAMPLE: 3131157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.93	93	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	

MATRIX SPIKE SAMPLE: 3131159

Parameter	Units	92516740002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	0.89	88	68-145	
4-Bromofluorobenzene (S)	%				96	70-130	

SAMPLE DUPLICATE: 3131158

Parameter	Units	92516740001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		
4-Bromofluorobenzene (S)	%	92	91		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Northstone
Pace Project No.: 92516740

QC Batch: 592935
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92516740001, 92516740002, 92516740003, 92516740004, 92516740005, 92516740006, 92516740007, 92516740008, 92516740009, 92516740010, 92516740011

METHOD BLANK: 3129630 Matrix: Water
Associated Lab Samples: 92516740001, 92516740002, 92516740003, 92516740004, 92516740005, 92516740006, 92516740007, 92516740008, 92516740009, 92516740010, 92516740011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	01/15/21 12:48	
Ethylbenzene	ug/L	ND	1.0	01/15/21 12:48	
m&p-Xylene	ug/L	ND	2.0	01/15/21 12:48	
o-Xylene	ug/L	ND	1.0	01/15/21 12:48	
Toluene	ug/L	ND	1.0	01/15/21 12:48	
Xylene (Total)	ug/L	ND	1.0	01/15/21 12:48	
1,2-Dichloroethane-d4 (S)	%	104	70-130	01/15/21 12:48	
4-Bromofluorobenzene (S)	%	99	70-130	01/15/21 12:48	
Toluene-d8 (S)	%	99	70-130	01/15/21 12:48	

LABORATORY CONTROL SAMPLE: 3129631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.4	97	70-130	
Ethylbenzene	ug/L	50	48.1	96	70-130	
m&p-Xylene	ug/L	100	97.1	97	70-130	
o-Xylene	ug/L	50	47.9	96	70-130	
Toluene	ug/L	50	47.7	95	70-130	
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3129632 3129633

Parameter	Units	92516740002 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	18.4	20.3	92	102	67-150	10	
Ethylbenzene	ug/L	ND	20	20	17.7	20.1	89	100	68-143	12	
m&p-Xylene	ug/L	ND	40	40	36.3	40.9	91	102	53-157	12	
o-Xylene	ug/L	ND	20	20	18.2	20.6	91	103	68-143	12	
Toluene	ug/L	ND	20	20	18.5	20.2	93	101	47-157	8	
Xylene (Total)	ug/L	ND	60	60	54.5	61.5	91	102	66-145	12	
1,2-Dichloroethane-d4 (S)	%						110	109	70-130		
4-Bromofluorobenzene (S)	%						101	104	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

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QUALIFIERS

Project: Colonial Northstone
Pace Project No.: 92516740

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
Pace Project No.: 92516740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92516740001	**21014-SW-1**	EPA 5030B/8015C Mod.	593264		
92516740002	**21014-SW-2**	EPA 5030B/8015C Mod.	593264		
92516740003	**21014-SW-3**	EPA 5030B/8015C Mod.	593264		
92516740004	**21014-SW-4**	EPA 5030B/8015C Mod.	593264		
92516740005	**21014-SW-5**	EPA 5030B/8015C Mod.	593264		
92516740006	**21014-SW-6**	EPA 5030B/8015C Mod.	593264		
92516740007	**21014-SW-7**	EPA 5030B/8015C Mod.	593264		
92516740008	**21014-SW-Confluence**	EPA 5030B/8015C Mod.	593264		
92516740009	**21014-SW-Seep**	EPA 5030B/8015C Mod.	593264		
92516740010	**21014-SW-DUP**	EPA 5030B/8015C Mod.	593264		
92516740001	**21014-SW-1**	EPA 8260D	592935		
92516740002	**21014-SW-2**	EPA 8260D	592935		
92516740003	**21014-SW-3**	EPA 8260D	592935		
92516740004	**21014-SW-4**	EPA 8260D	592935		
92516740005	**21014-SW-5**	EPA 8260D	592935		
92516740006	**21014-SW-6**	EPA 8260D	592935		
92516740007	**21014-SW-7**	EPA 8260D	592935		
92516740008	**21014-SW-Confluence**	EPA 8260D	592935		
92516740009	**21014-SW-Seep**	EPA 8260D	592935		
92516740010	**21014-SW-DUP**	EPA 8260D	592935		
92516740011	**21014-Trio Blank**	EPA 8260D	592935		

Pace Analytical

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Af

WO# : 92516740

92516740

ALL S

Company: Montrose - EPS	Billing Information: 400 Northridge Rd, Suite 400 Sandy Springs, GA 30350
Address:	
Report To: Email to: Clee@montrose-env.com	Email To: ;ctcates@montrose-env.com;
Copy To: atestoff@montrose-env.com	Site Collection Info/Address:
Customer Project Name/Number: Colonial Northstone / 070PP-785322	State: NC / County/City: Huntersville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 404-315-9113 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: [X] Yes [ ] No

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

Analyses

* 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 Method 8026	TPH GRO Method 8015	Lab Sample # / Comments
											92516740
21014-SW-1	SW	G	1/14/21	12:25				6	X	X	001
21014-SW-2	SW	G	1/14/21	12:45				6	X	X	002
21014-SW-3	SW	G	1/14/21	12:55				6	X	X	003
21014-SW-4	SW	G	1/14/21	13:10				6	X	X	004
21014-SW-5	SW	G	1/14/21	13:25				6	X	X	005
21014-SW-6	SW	G	1/14/21	13:40				6	X	X	006
21014-SW-7	SW	G	1/14/21	13:55				6	X	X	007
21014-SW-Confluence	SW	G	1/14/21	11:25				6	X	X	008
21014-SW-Seep	SW	G	1/14/21	11:30				6	X	X	009
21014-TripBlank	W	G	1/14/21	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:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

G = Grab
W = Water
SW = Surface Water

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 #: 2529556

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 92 TOC4
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:
	1/14/21 1455	MDG Pace HVL	1-14-21 14:55
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:

WO# : 92516740
PM: NMG Due Date: 01/20/21
CLIENT: 92-MontEnvGr

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

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

LAB USE ONLY- A

ALL SHADED

Company: Montrose - EPS

Billing Information: 400 Northridge Rd, Suite 400 Sandy Springs, GA 30350

Address:

Report To: Email To: Clee@montrose-env.com; cl-cates@montrose-env.com

Email To:

Copy To: atestoffs@Montrose-env.com

Site Collection Info/Address:

Customer Project Name/Number: Colonial Northstone/OTOPP-785322

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

Phone: 404-315-9113 Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Peyton Cole Cates & Hillman

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 **

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:

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 Method 8026	TPH GRO Method 8015	Lab Profile/Line
21014-SW-DUP	GSW	G	1/14/21	12:00				6	X	X	10

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:
SW = Surface Water
G = Grab

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used:

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

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

Lab Tracking #: 2529555

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

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 92IR104
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	1/14/21 1455	MD CPace HVL	1/14/21 14:55
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

WELL ABANDONMENT RECORDS

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Matt Cole

Well Contractor Name (or well owner personally abandoning well on his/her property)

4442b

NC Well Contractor Certification Number

McCall Brothers, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☑Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/30/2020

5a. Well location:

Michael Bloch

Facility/Owner Name

Facility ID# (if applicable)

13923 Asbury Chapel Road

Physical Address, City, and Zip

MECKLENBURG

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35,25'39" N 80,48'22" W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: 2

6b. Total well depth: 270 **(ft.)**

6c. Borehole diameter: 6 **(in.)**

6d. Water level below ground surface: 45 **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: chlorine

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☑ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

62 50lb bags

7g. Provide a brief description of the abandonment procedure:

chlorinate well, fill with bentonite while hydrating

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/30/2020

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

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

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

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

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

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

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Matt Cole

Well Contractor Name (or well owner personally abandoning well on his/her property)

4442b

NC Well Contractor Certification Number

McCall Brothers, Inc.

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☑Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☐Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 10/30/2020

5a. Well location:

Marc L. and Julia M. Bellet

Facility/Owner Name

Facility ID# (if applicable)

13937 Asbury Chapel Road

Physical Address, City, and Zip

MECKLENBURG

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35,24'42" N 80,48'21" W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: 1

6b. Total well depth: 180 (ft.)

6c. Borehole diameter: 6 (in.)

6d. Water level below ground surface: 35 (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: chlorine

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☑ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

45 bags

7g. Provide a brief description of the abandonment procedure:

chlorinate well, fill with bentonite while hydrating

8. Certification:

Signature of Certified Well Contractor or Well Owner

10/30/2020

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

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

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

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

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Robert Miller
Well Contractor Name (or well owner personally abandoning well on his/her property)

2675-A
NC Well Contractor Certification Number

SAEDACCO Inc
Company Name

2. Well Construction Permit #: 10011827, ,
List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

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

Non-Water Supply Well:

☐Monitoring	☐Recovery

Injection Well:

☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 12-30-2020

5a. Well location:

Colonial Pipeline
Facility/Owner Name

Facility ID# (if applicable)

13945 Asbury Chapel Rd. Huntersville, NC 28078
Physical Address, City, and Zip

Mecklenburg
County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: 13945_AC_RD

6b. Total well depth: 53' (ft.)

6c. Borehole diameter: 2" (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 53' (ft.)

6f. Inner casing/tubing length (if known): 25' (ft.)

6g. Screen length (if known): _____ (ft.)

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: 1
*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: calcium hypchlorite

7d. Amount of disinfectant used: 1 oz

7e. Sealing materials used (check all that apply):

☒ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

Neat Cem.:1,800lb ,Wtr:400gal. Sand Cem.:lb ,Wtr:gal.

Bentonite.:20lb ,Wtr:gal.

7g. Provide a brief description of the abandonment procedure:

Trimi grout from bottom to top

8. Certification:

Signature of Licensed Well Contractor or Well Owner

1/7/2021
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

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

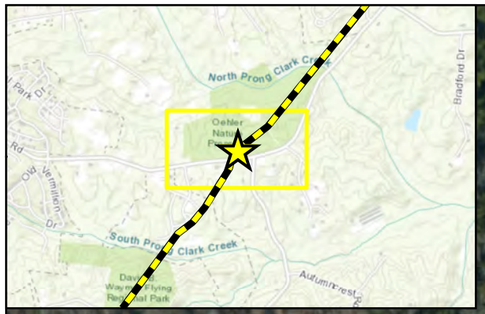
10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

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

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

APPENDIX C

CROSS SECTIONS



Data Sources: Mecklenburg County GIS (Streets)

Checked By:	AS
Created By:	JC
Scale:	1 " = 150 FT
Date/Time:	1/20/2021; 17:24
Project No.:	CPC20126

Cross-Section Strike Lines
Colonial Pipeline Company
2020-L1-SR2448 Release
Huntersville, North Carolina

0 150 300 450 Feet

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

APEX

FIGURE 1

Apex Companies, LLC

SUBSURFACE DIAGRAM
A-A'

CLIENT Colonial Pipeline

PROJECT NUMBER CPC20126

PROJECT NAME 2020-L1-SR2448

PROJECT LOCATION Huntersville, NC

Stratum A: lean clay, silty clay, clayey silt, plastic silt

Stratum B: primarily silt and very find sand

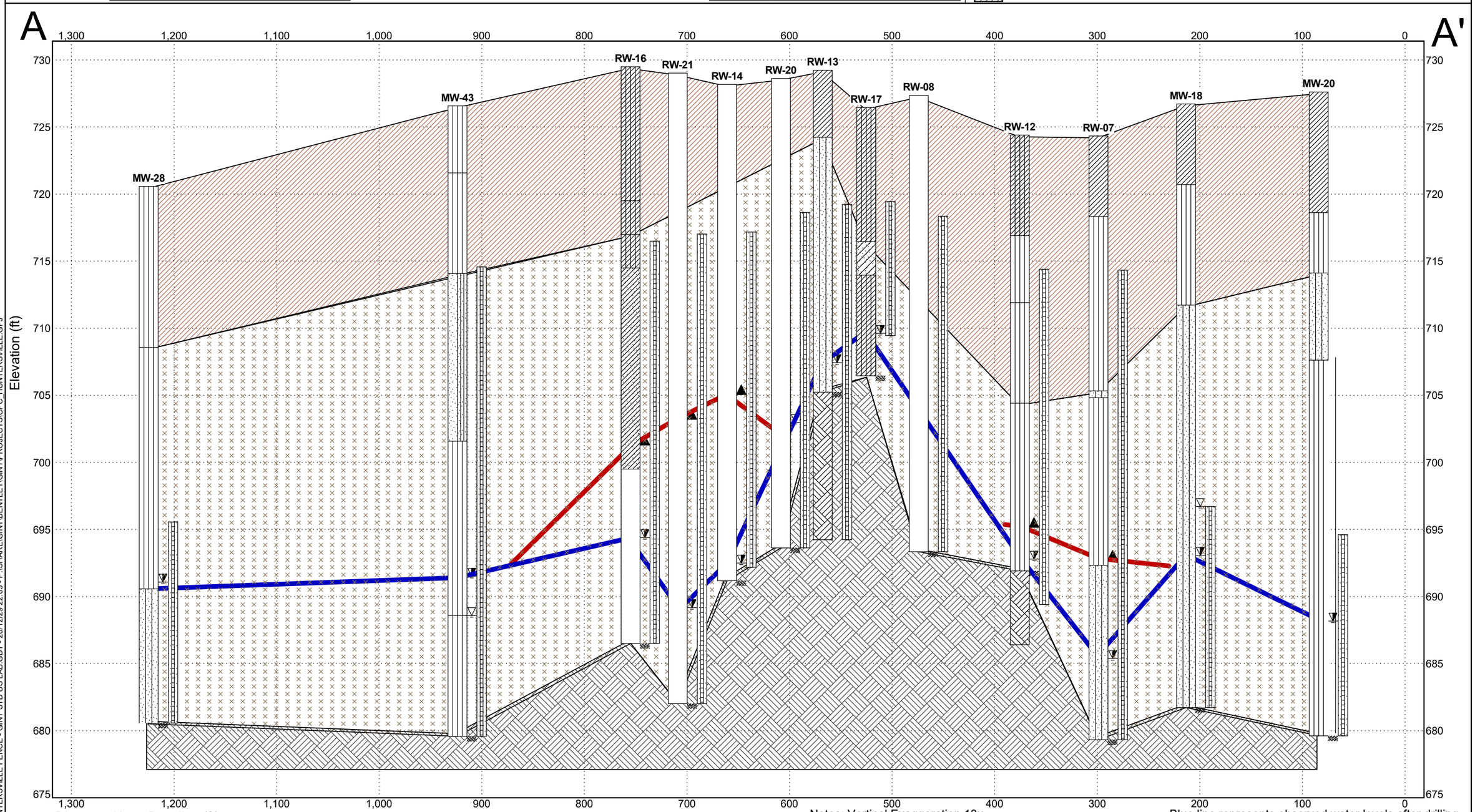
Bedrock: weathered and competent

bedrock level

LNAPL level after drilling

water level after drilling

water level during drilling



Notes: Vertical Exaggeration 13x
Selected wells/borings projected onto baseline from within 50 feet
LNAPL: Light Non-Aqueous Phase Liquid

Blue line represents observed water levels after drilling
Red line represents observed LNAPL after drilling

Apex Companies, LLC

SUBSURFACE DIAGRAM
B-B'

CLIENT Colonial Pipeline

PROJECT NUMBER CPC20126

PROJECT NAME 2020-L1-SR2448

PROJECT LOCATION Huntersville, NC

Stratum A; lean clay, silty clay, clayey silt, plastic silt

Stratum B: primarily silt and very fine sand

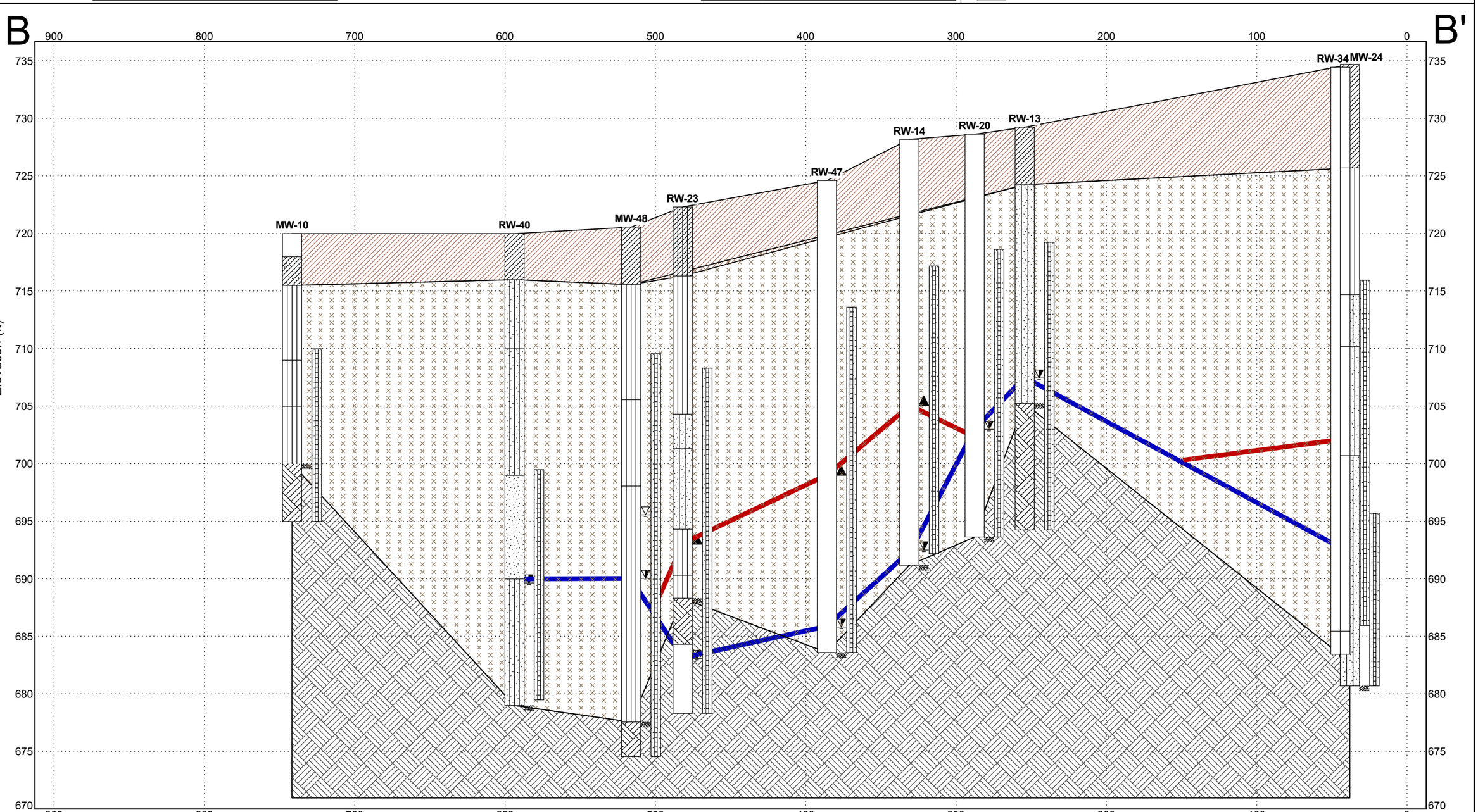
Bedrock: weathered and competent

bedrock level

LNAPL level after drilling

water level after drilling

water level during drilling



Notes: Vertical Exaggeration 7.5x
Selected wells/borings projected onto baseline from within 50 feet
LNAPL: Light Non-Aqueous Phase Liquid

Blue line represents observed water levels after drilling
Red line represents observed LNAPL after drilling

CPC HUNTERSVILLE FENCE - GINT STD US LAB.GDT - 1/4/21 18:22 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

APPENDIX D

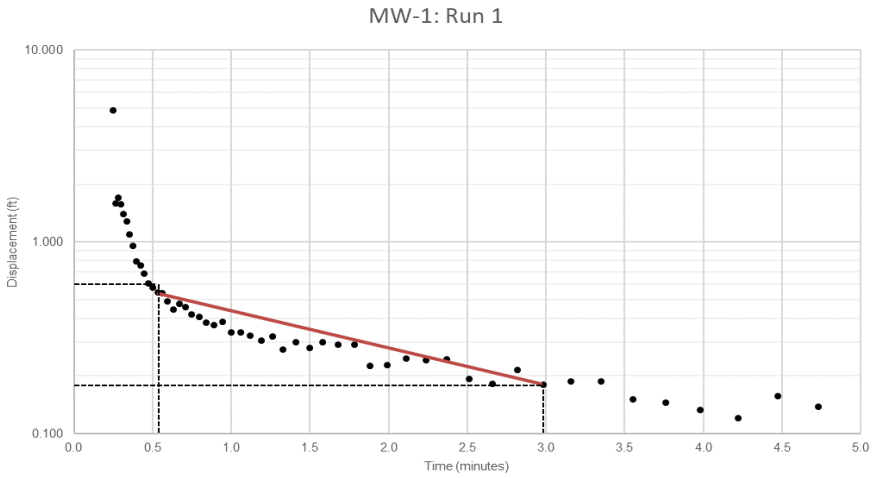
SLUG TEST DATA

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-1 - Run 1

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	9.83	**(Le)**
Well		
Water Column (ft)	9.83	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
0.422	0.7540
0.447	0.6870
0.562	0.5380
0.794	0.4050
1.330	0.2760
1.780	0.2920
2.370	0.2440
2.980	0.1800
4.730	0.1380



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r_w} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65

t=elapsed time (min)

HYDRAULIC CONDUCTIVITY (FT/DAY) 4.38E-01

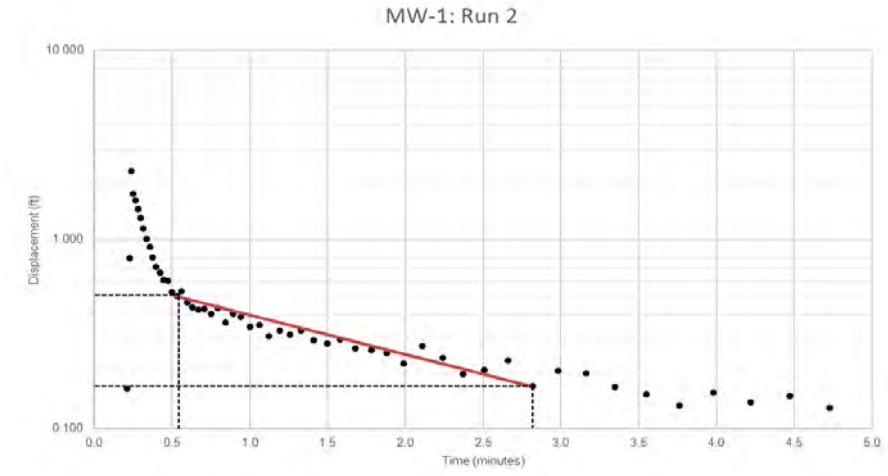
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.55E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-1 - Run 2

Well Data	
Casing	
Radius (ft)	0.0833 **(Rc)**
Borehole	
Radius (ft)	0.3438 **(Rw)**
Intake	
Length (ft)	9.83 **(Le)**
Well	
Water Column (ft)	9.83 **(Lw)**
Aquifer	
Thickness (ft)	30 **(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.355	0.9160
0.473	0.6040
0.596	0.4660
0.750	0.4040
1.120	0.3080
1.880	0.2500
2.370	0.1940
2.820	0.1680
4.730	0.1290



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r_w} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

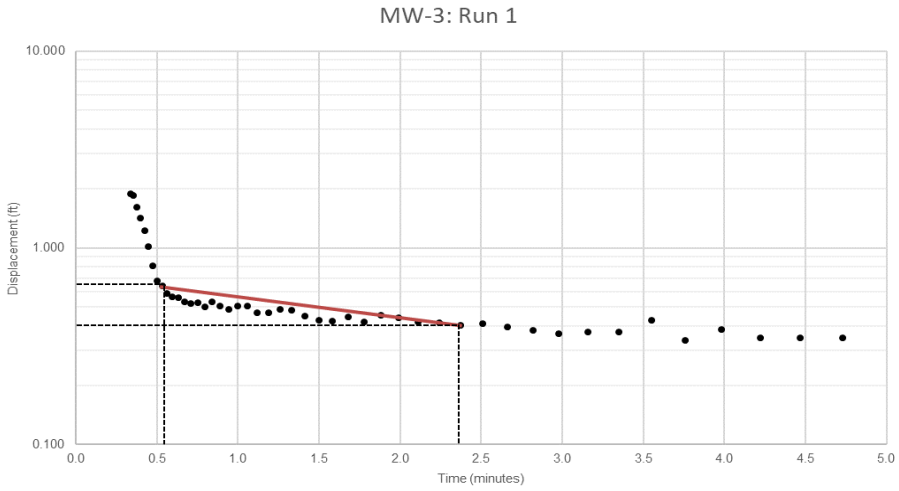
HYDRAULIC CONDUCTIVITY (FT/DAY)	4.44E-01
HYDRAULIC CONDUCTIVITY (CM/SEC)	1.57E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-3 - Run 1

Well Data	
Casing	
Radius (ft)	0.0833 **(Rc)**
Borehole	
Radius (ft)	0.3438 **(Rw)**
Intake	
Length (ft)	9.65 **(Le)**
Well	
Water Column (ft)	9.65 **(Lw)**
Aquifer	
Thickness (ft)	30 **(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
0.422	1.2220
0.473	0.8080
0.531	0.6400
0.794	0.5010
1.190	0.4690
1.580	0.4230
1.880	0.4560
2.370	0.4050
4.730	0.3480



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 2.43E-01

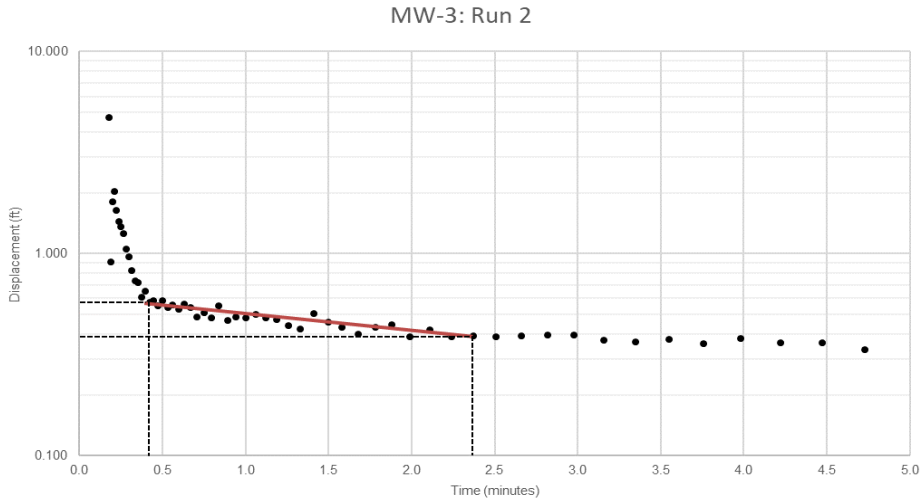
HYDRAULIC CONDUCTIVITY (CM/SEC) 8.56E-05

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-3 - Run 2

Well Data	
Casing	
Radius (ft)	0.0833 **(Rc)**
Borehole	
Radius (ft)	0.3438 **(Rw)**
Intake	
Length (ft)	9.65 **(Le)**
Well	
Water Column (ft)	9.65 **(Lw)**
Aquifer	
Thickness (ft)	30 **(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
0.376	0.6110
0.398	0.6540
0.422	0.5730
0.794	0.4790
0.841	0.5530
0.891	0.4670
0.944	0.4850
2.370	0.3900
4.730	0.3350



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 1.93E-01

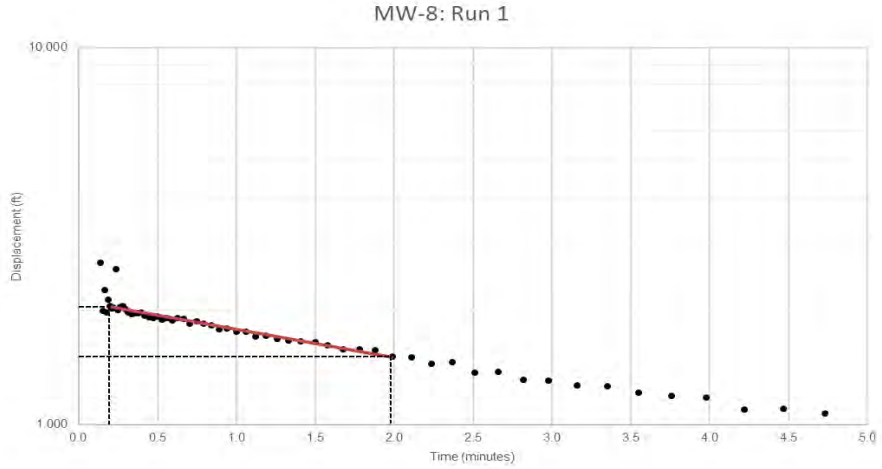
HYDRAULIC CONDUCTIVITY (CM/SEC) 6.80E-05

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-8 - Run 1

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.3333 (Rw)
Intake	
Length (ft)	17.37 (Le)
Well	
Water Column (ft)	17.37 (Lw)
Aquifer	
Thickness (ft)	17.37 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.224	2.046
0.238	2.588
0.251	2.009
0.668	1.904
0.708	1.855
0.750	1.880
0.794	1.848
1.990	1.513
5.960	0.938



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{\ln \frac{y_0}{y_t}}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 3 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **5.59E-01**

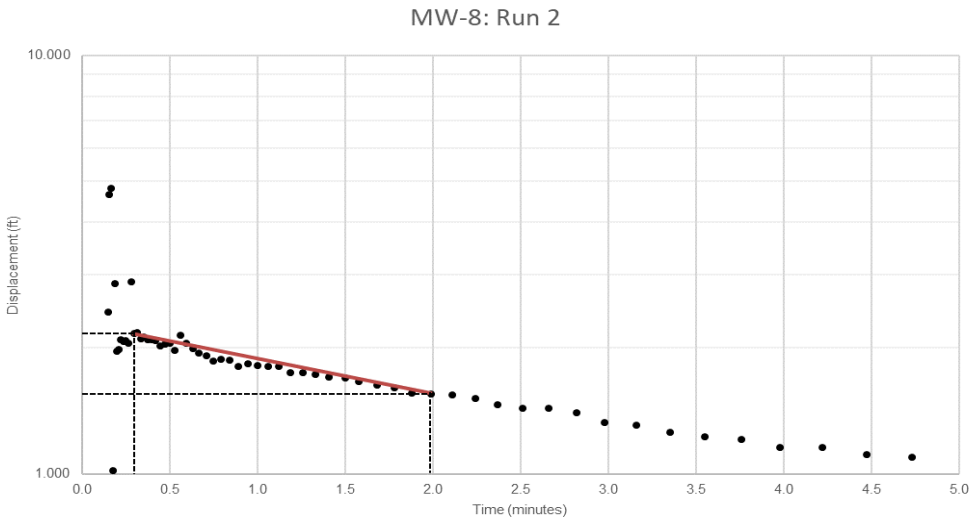
HYDRAULIC CONDUCTIVITY (CM/SEC) **1.97E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-8 - Run 2

Well Data		
Casing		
Radius (ft)	0.1667	(Rc)
Borehole		
Radius (ft)	0.3333	(Rw)
Intake		
Length (ft)	17.37	(Le)
Well		
Water Column (ft)	17.37	(Lw)
Aquifer		
Thickness (ft)	17.37	(H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.266	2.057
0.282	2.882
0.298	2.169
1.410	1.703
1.500	1.698
1.580	1.660
1.680	1.634
1.990	1.552
4.730	1.097



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{\ln \frac{y_0}{y_t}}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 3 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **6.78E-01**

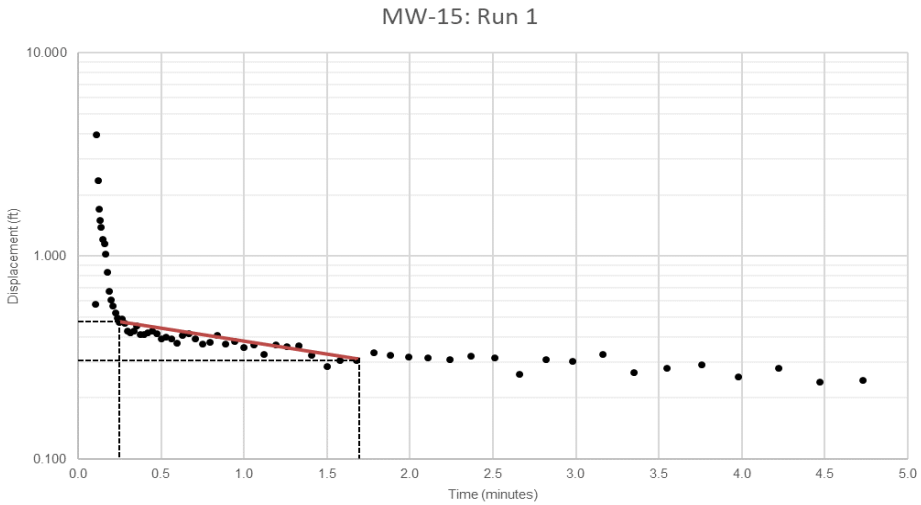
HYDRAULIC CONDUCTIVITY (CM/SEC) **2.39E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-15 - Run 1

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	6.98	**(Le)**
Well		
Water Column (ft)	6.98	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.211	0.570
0.224	0.524
0.237	0.494
0.501	0.393
0.531	0.400
0.562	0.390
0.596	0.373
1.680	0.305
4.730	0.245



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 2.4

Parameter B: 0.5 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 4.08E-01

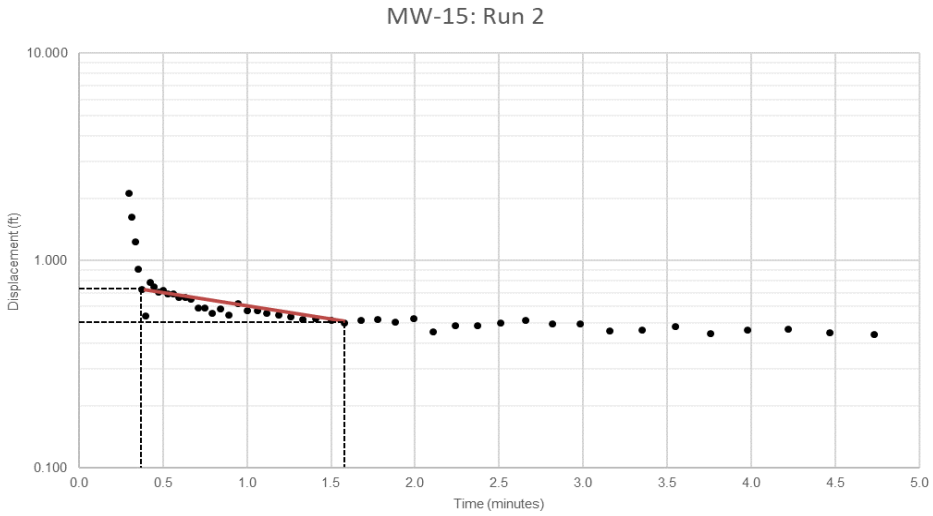
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.44E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-15 - Run 2

Well Data	
Casing	
Radius (ft)	0.0833 **(Rc)**
Borehole	
Radius (ft)	0.3438 **(Rw)**
Intake	
Length (ft)	6.98 **(Le)**
Well	
Water Column (ft)	6.98 **(Lw)**
Aquifer	
Thickness (ft)	30 **(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.335	1.232
0.355	0.909
0.376	0.723
0.708	0.593
0.750	0.592
0.794	0.558
0.841	0.587
1.580	0.501
4.730	0.439



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 2.4
Parameter B: 0.5

t=elapsed time (min)

HYDRAULIC CONDUCTIVITY (FT/DAY) 3.72E-01

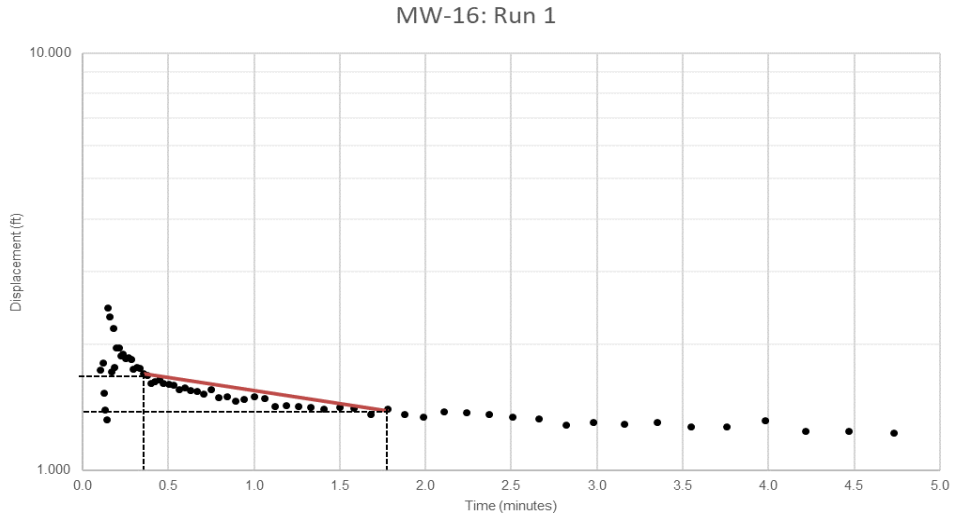
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.31E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-16 - Run 1

Well Data		
Casing		
Radius (ft)	0.1667	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	16.54	**(Le)**
Well		
Water Column (ft)	16.54	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.150	2.443
0.282	1.843
0.376	1.689
0.596	1.573
0.794	1.493
1.260	1.424
1.580	1.410
1.780	1.399
4.730	1.227



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 4.10E-01

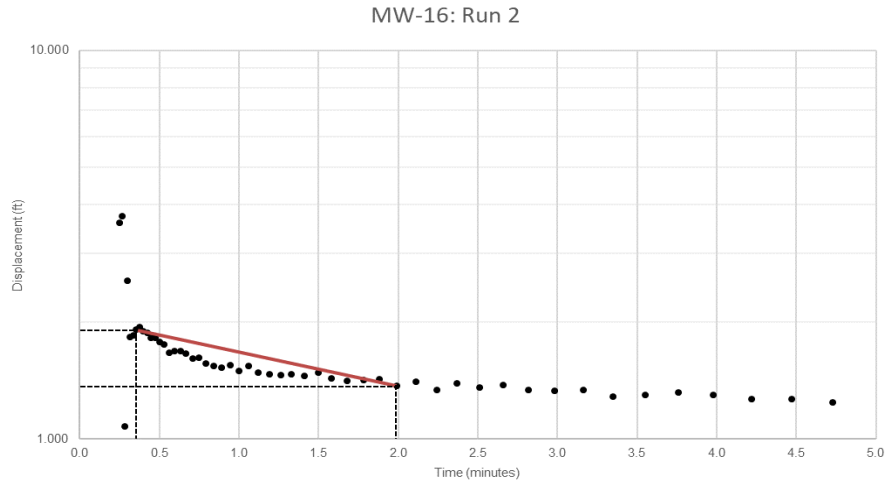
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.45E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-16 - Run 2

Well Data		
Casing		
Radius (ft)	0.1667	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	16.54	**(Le)**
Well		
Water Column (ft)	16.54	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.251	3.594
0.298	2.559
0.355	1.913
0.596	1.682
0.841	1.538
1.190	1.465
1.580	1.432
1.990	1.372
4.730	1.243



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 6.21E-01

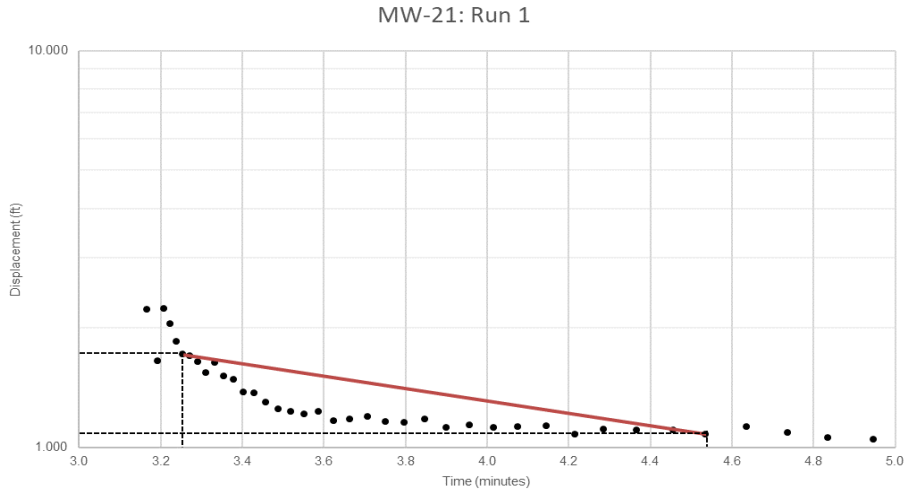
HYDRAULIC CONDUCTIVITY (CM/SEC) 2.19E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-21 - Run 1

Well Data		
Casing		
Radius (ft)	0.1667	**(Rc)**
Borehole		
Radius (ft)	0.3333	**(Rw)**
Intake		
Length (ft)	19.15	**(Le)**
Well		
Water Column (ft)	19.15	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
3.206	2.236
3.221	2.046
3.253	1.715
3.402	1.381
3.705	1.198
4.015	1.122
4.455	1.105
4.535	1.081
4.945	1.050



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r_w} \right]^{-1}$$

Parameter A: 4.2
Parameter B: 0.8

t=elapsed time (min)

HYDRAULIC CONDUCTIVITY (FT/DAY) 9.56E-01

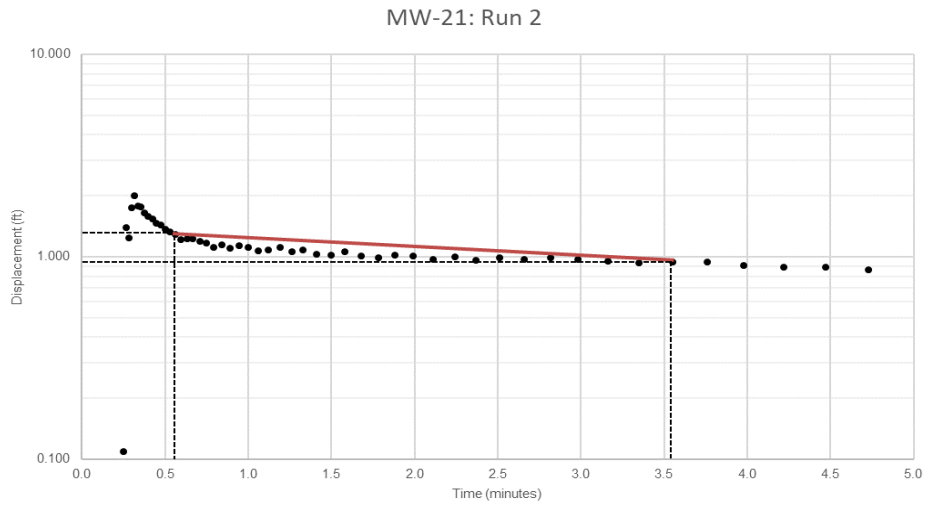
HYDRAULIC CONDUCTIVITY (CM/SEC) 3.37E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-21 - Run 2

Well Data		
Casing		
Radius (ft)	0.1667	**(Rc)**
Borehole		
Radius (ft)	0.3333	**(Rw)**
Intake		
Length (ft)	19.15	**(Le)**
Well		
Water Column (ft)	19.15	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.355	1.767
0.473	1.429
0.562	1.295
0.944	1.131
1.500	1.023
2.240	1.001
2.980	0.968
3.550	0.938
4.730	0.861



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 4.2

Parameter B: 0.8 ***t=elapsed time (min)***

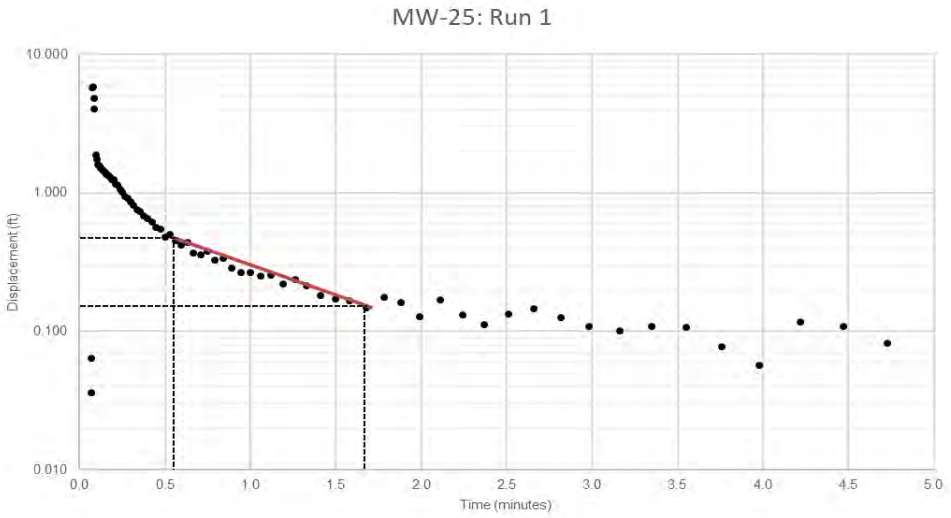
HYDRAULIC CONDUCTIVITY (FT/DAY)	2.87E-01
HYDRAULIC CONDUCTIVITY (CM/SEC)	1.01E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-25 - Run 1

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	16.82	**(Le)**
Well		
Water Column (ft)	16.82	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.133	1.4570
0.473	0.5450
0.562	0.4170
0.794	0.3280
1.000	0.2640
1.260	0.2350
1.500	0.1700
1.680	0.1480
4.730	0.0820



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 7.02E-01

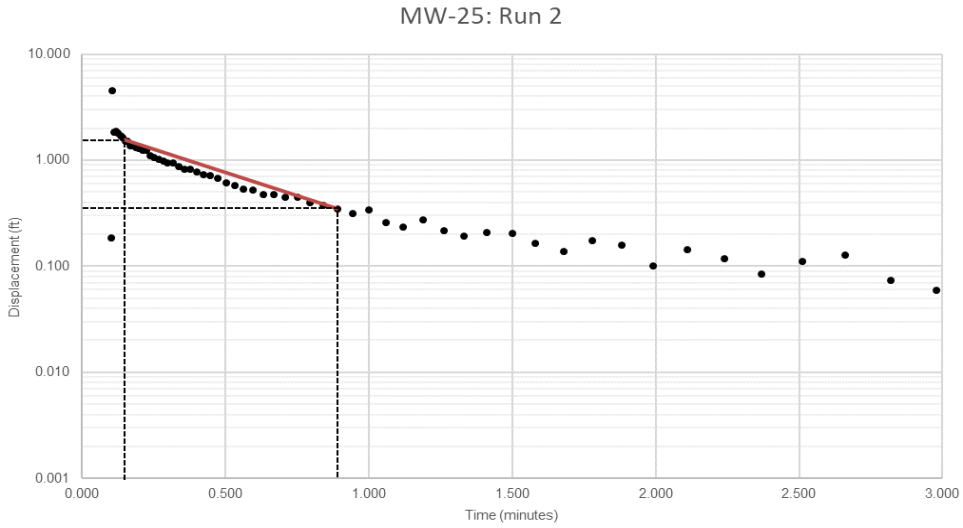
HYDRAULIC CONDUCTIVITY (CM/SEC) 2.48E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-25 - Run 2

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	16.82	**(Le)**
Well		
Water Column (ft)	16.82	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
0.126	1.8090
0.133	1.7050
0.168	1.3630
0.282	0.9870
0.473	0.6740
0.596	0.5220
0.794	0.4010
0.891	0.3450
2.980	0.0590



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 1.44E+00

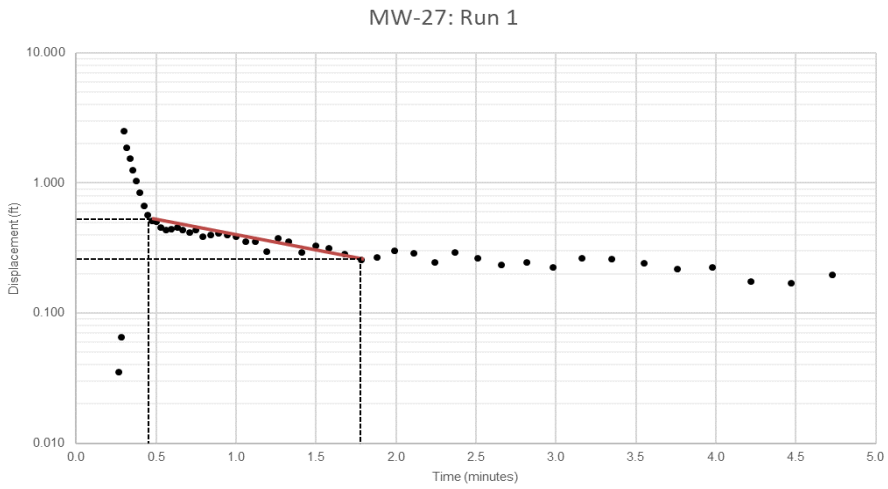
HYDRAULIC CONDUCTIVITY (CM/SEC) 5.08E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-27 - Run 1

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	12.2	**(Le)**
Well		
Water Column (ft)	12.2	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
0.398	0.842
0.422	0.665
0.473	0.509
0.708	0.417
1.060	3.530
1.330	0.354
1.680	0.283
1.780	0.255
4.730	0.197



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 4.66E-01

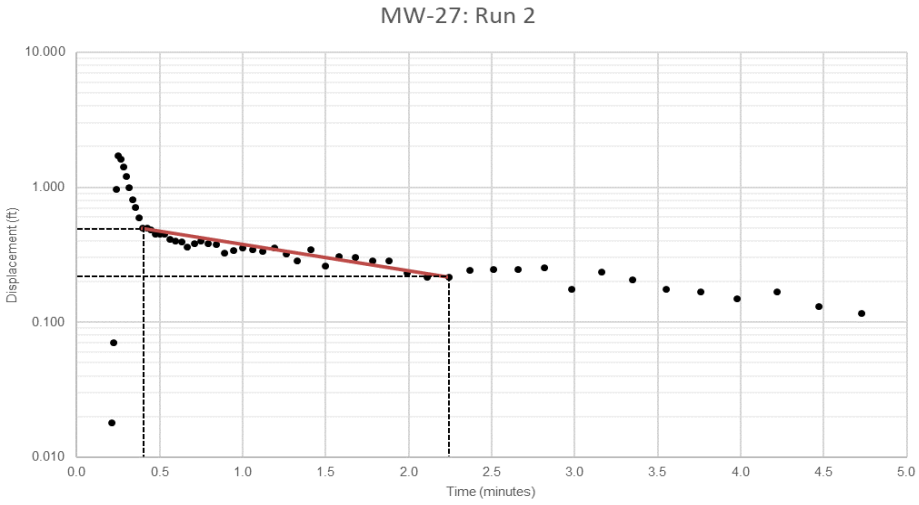
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.64E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-27 - Run 2

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	12.2	**(Le)**
Well		
Water Column (ft)	12.2	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.316	0.9920
0.376	0.5930
0.422	0.5010
0.596	0.4010
0.944	0.3410
1.410	0.3470
1.780	0.2840
2.240	0.2170
4.730	0.1170



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 4.06E-01

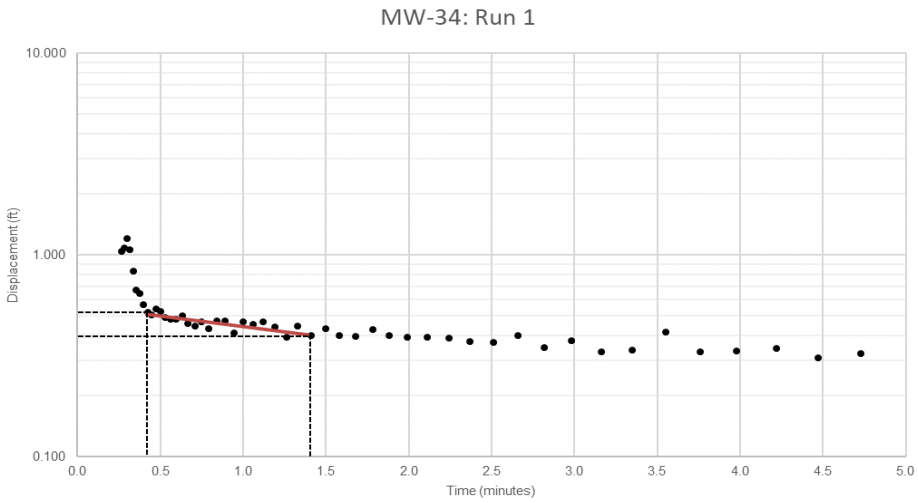
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.43E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-34 - Run 1

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	14.42	**(Le)**
Well		
Water Column (ft)	14.42	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
1.880	0.399
1.990	0.390
0.447	0.506
0.631	0.499
0.891	0.471
1.190	0.441
1.330	0.444
1.410	0.399
4.730	0.324



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 2.01E-01

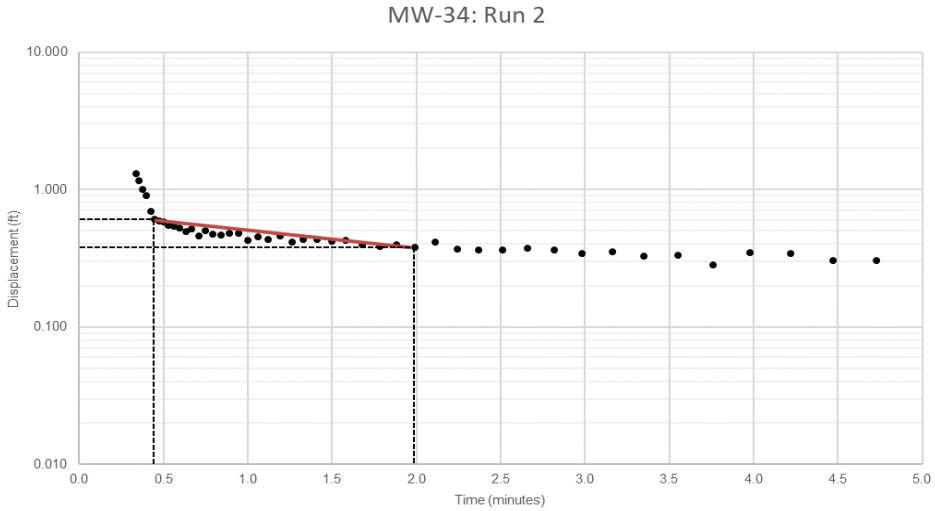
HYDRAULIC CONDUCTIVITY (CM/SEC) 7.10E-05

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-34 - Run 2

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	14.42	**(Le)**
Well		
Water Column (ft)	14.42	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.473	0.587
0.501	0.585
0.447	0.604
0.750	0.504
1.190	0.458
1.260	0.413
1.330	0.435
1.990	0.337
4.730	0.303



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 3.09E-01

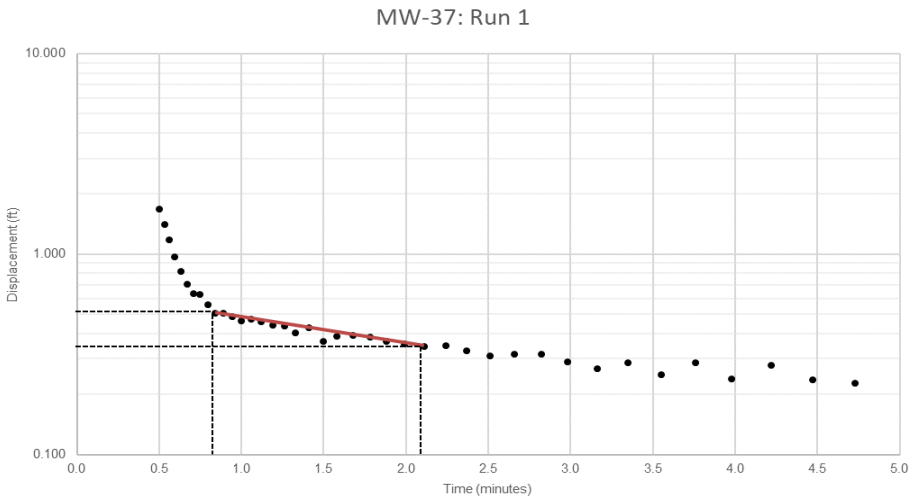
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.09E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-37 - Run 1

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	11.03	**(Le)**
Well		
Water Column (ft)	11.03	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
0.708	0.6320
0.750	0.6280
0.841	0.5070
1.000	0.4650
1.260	0.4380
1.330	0.4030
1.410	0.4290
2.110	0.3450
4.220	0.2780



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 2.80E-01

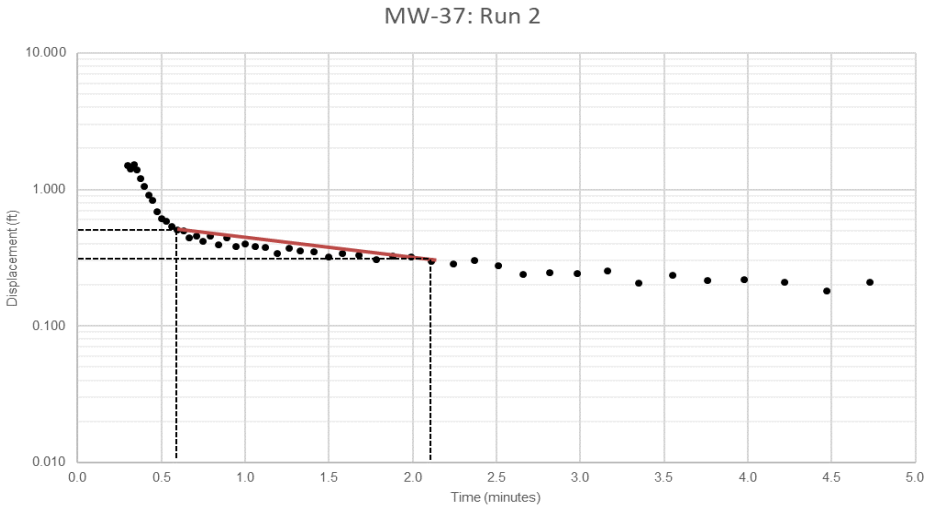
HYDRAULIC CONDUCTIVITY (CM/SEC) 9.86E-05

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-37 - Run 2

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	11.03	**(Le)**
Well		
Water Column (ft)	11.03	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.531	0.5830
0.562	0.5400
0.596	0.5040
0.944	0.3800
1.000	0.4020
1.060	0.3820
1.120	0.3750
2.110	0.2960
4.730	0.2090



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 3.24E-01

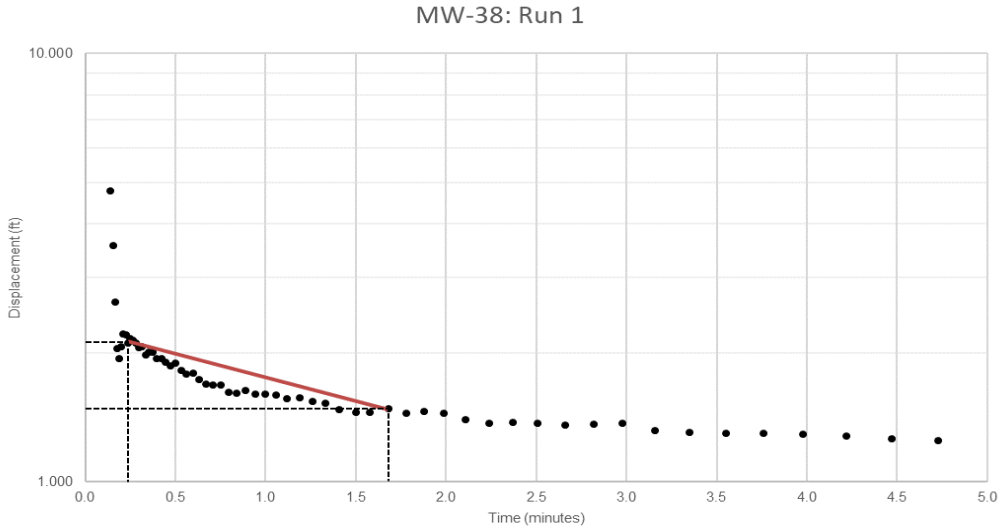
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.14E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-38 - Run 1

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.3333 (Rw)
Intake	
Length (ft)	15.91 (Le)
Well	
Water Column (ft)	15.91 (Lw)
Aquifer	
Thickness (ft)	15.91 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.224	2.207
0.237	2.112
0.266	2.141
0.562	1.783
0.750	1.682
1.060	1.592
1.500	1.452
1.680	1.481
2.370	1.376



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{\ln \frac{y_0}{y_t}}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 2 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **1.00E+00**

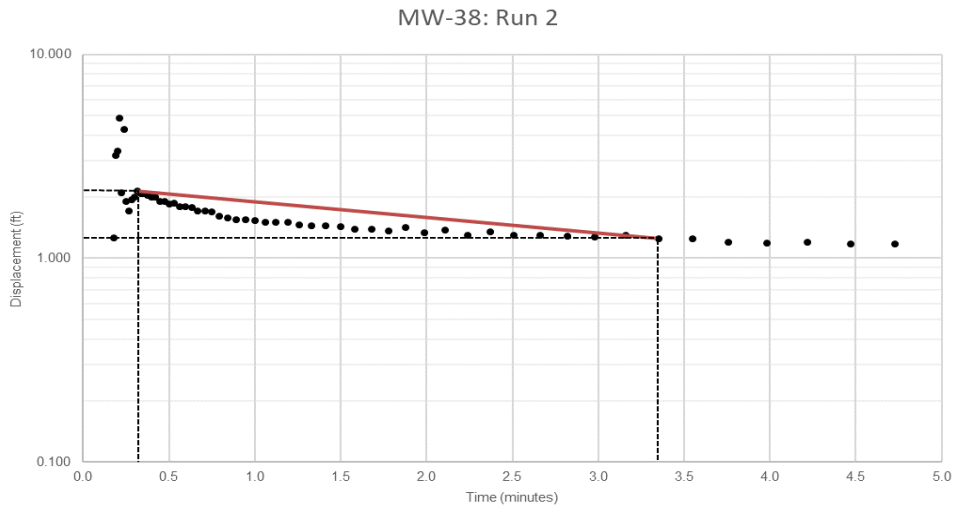
HYDRAULIC CONDUCTIVITY (CM/SEC) **3.54E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-38 - Run 2

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.3333 (Rw)
Intake	
Length (ft)	15.91 (Le)
Well	
Water Column (ft)	15.91 (Lw)
Aquifer	
Thickness (ft)	15.91 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.266	1.710
0.282	1.936
0.335	2.134
0.473	1.902
0.501	1.852
0.531	1.867
1.880	1.413
3.350	1.250
4.730	1.175



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 2 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **6.83E-01**

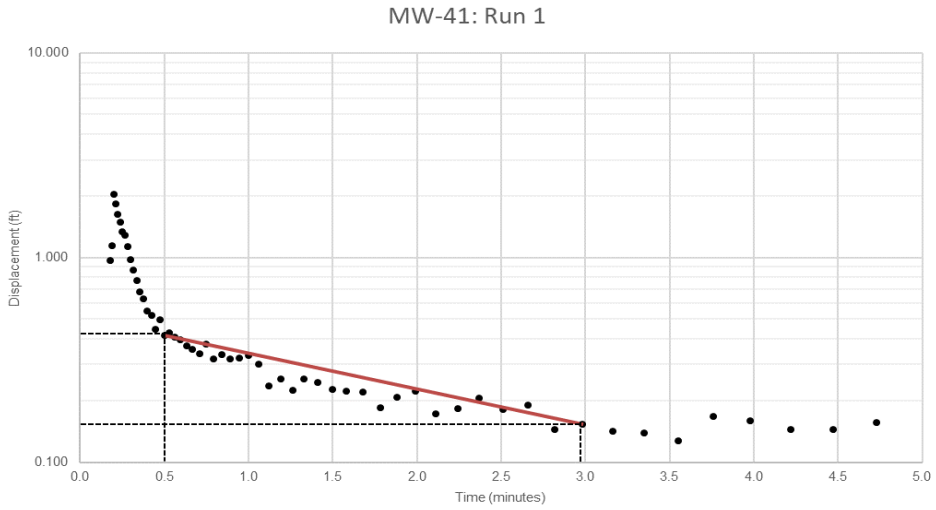
HYDRAULIC CONDUCTIVITY (CM/SEC) **2.41E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-41 - Run 1

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	14.70	**(Le)**
Well		
Water Column (ft)	14.70	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	DRAWDOWN (ft)
0.355	0.679
0.376	0.630
0.501	0.418
1.060	0.300
1.120	0.235
1.190	0.255
1.260	0.224
2.980	0.153
3.760	0.168



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 3.28E-01

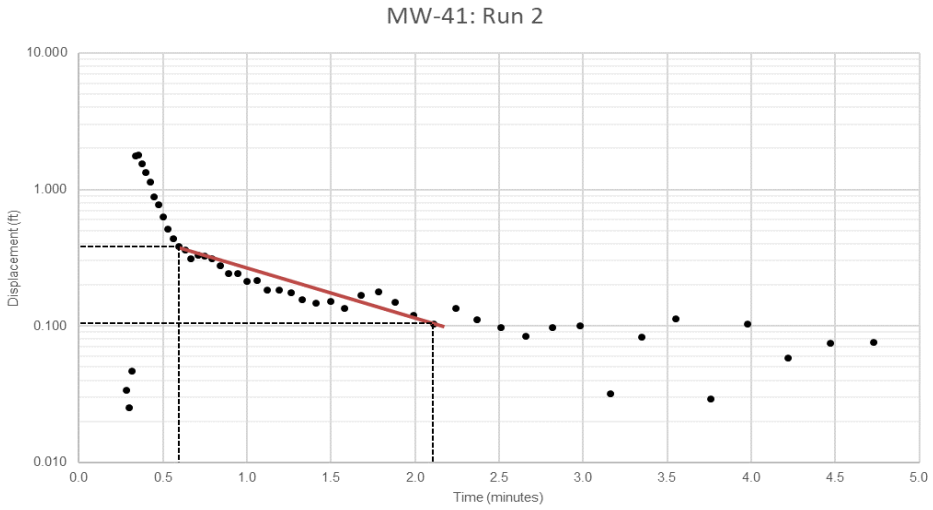
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.16E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-41 - Run 2

Well Data		
Casing		
Radius (ft)	0.0833	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	14.70	**(Le)**
Well		
Water Column (ft)	14.70	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.473	0.7690
0.501	0.6260
0.596	0.3840
0.944	0.2410
1.000	0.2130
1.060	0.2150
1.120	0.1840
2.110	0.1040
3.550	0.1130



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 3

Parameter B: 0.65 ***t=elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) 6.97E-01

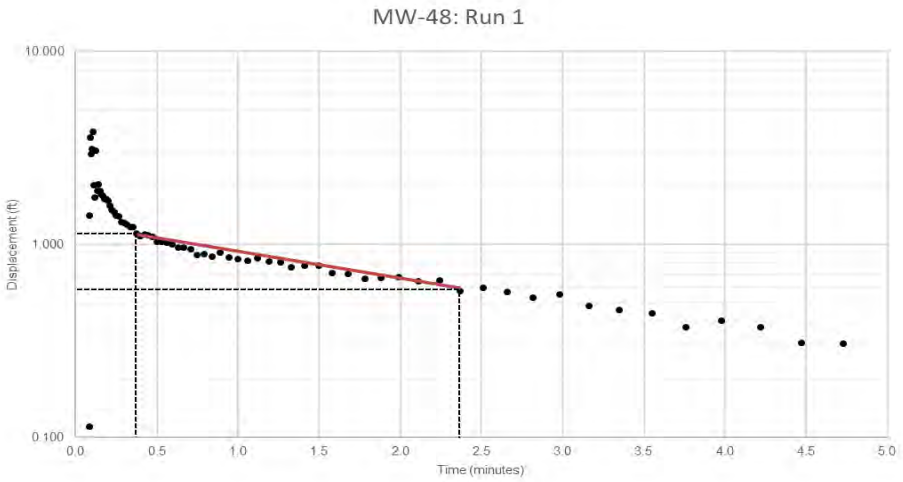
HYDRAULIC CONDUCTIVITY (CM/SEC) 2.46E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-48 - Run 1

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.4000 (Rw)
Intake	
Length (ft)	14.65 (Le)
Well	
Water Column (ft)	14.65 (Lw)
Aquifer	
Thickness (ft)	14.65 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.355	1.235
0.376	1.141
0.398	1.107
0.891	0.909
0.944	0.855
1.000	0.838
1.060	0.827
2.370	0.574
4.730	0.307



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{\ln \frac{y_0}{y_t}}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 2 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **1.26E+00**

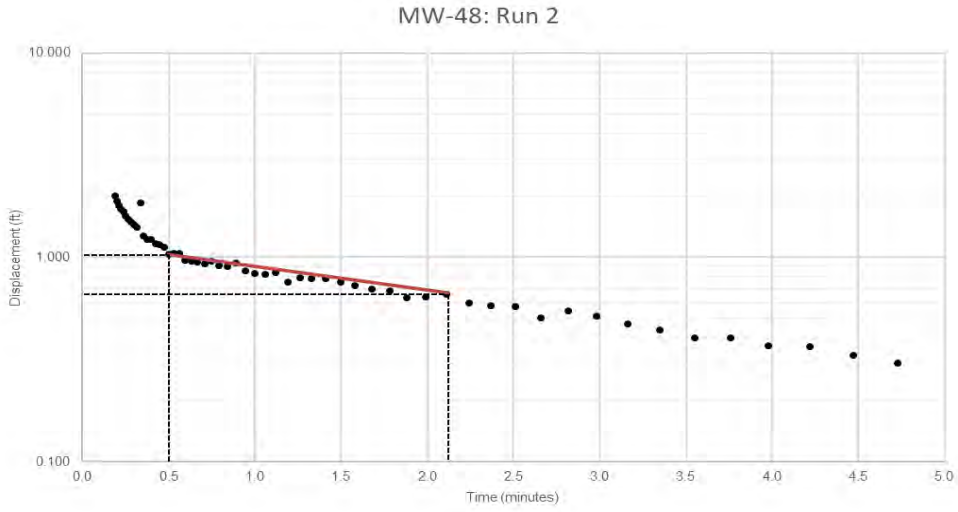
HYDRAULIC CONDUCTIVITY (CM/SEC) **4.45E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-48 - Run 2

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.4000 (Rw)
Intake	
Length (ft)	14.65 (Le)
Well	
Water Column (ft)	14.65 (Lw)
Aquifer	
Thickness (ft)	14.65 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.398	1.227
0.473	1.115
0.531	1.043
0.794	0.914
1.125	0.844
1.500	0.754
1.880	0.635
2.110	0.656
3.550	0.402



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 2 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **1.11E+00**

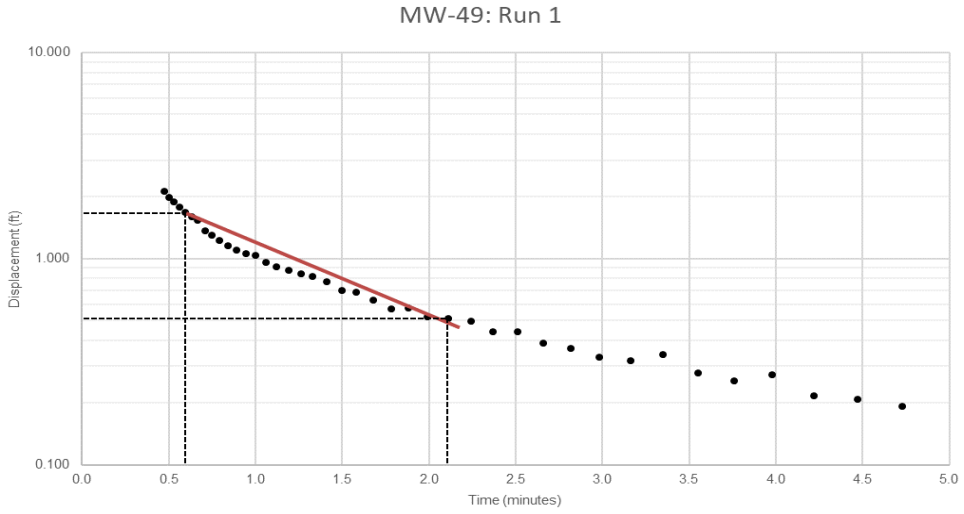
HYDRAULIC CONDUCTIVITY (CM/SEC) **3.93E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-49 - Run 1

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.3333 (Rw)
Intake	
Length (ft)	23.75 (Le)
Well	
Water Column (ft)	23.75 (Lw)
Aquifer	
Thickness (ft)	23.75 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.501	1.982
0.596	1.674
0.631	1.594
1.190	0.875
1.260	0.844
1.330	0.816
1.410	0.773
2.110	0.511
4.730	0.192



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{\ln \frac{y_0}{y_t}}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 3 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **2.16E+00**

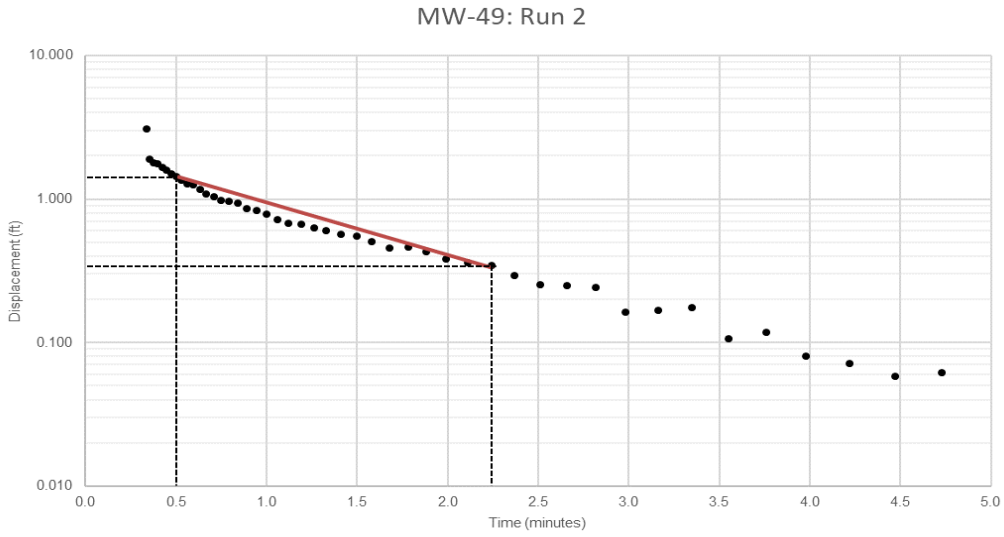
HYDRAULIC CONDUCTIVITY (CM/SEC) **7.62E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-49 - Run 2

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.3333 (Rw)
Intake	
Length (ft)	23.75 (Le)
Well	
Water Column (ft)	23.75 (Lw)
Aquifer	
Thickness (ft)	23.75 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.355	1.889
0.376	1.780
0.398	1.757
0.562	1.281
0.596	1.252
1.330	0.605
1.990	0.380
2.240	0.345
4.730	0.062



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{\ln \frac{y_0}{y_t}}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 3 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **2.48E+00**

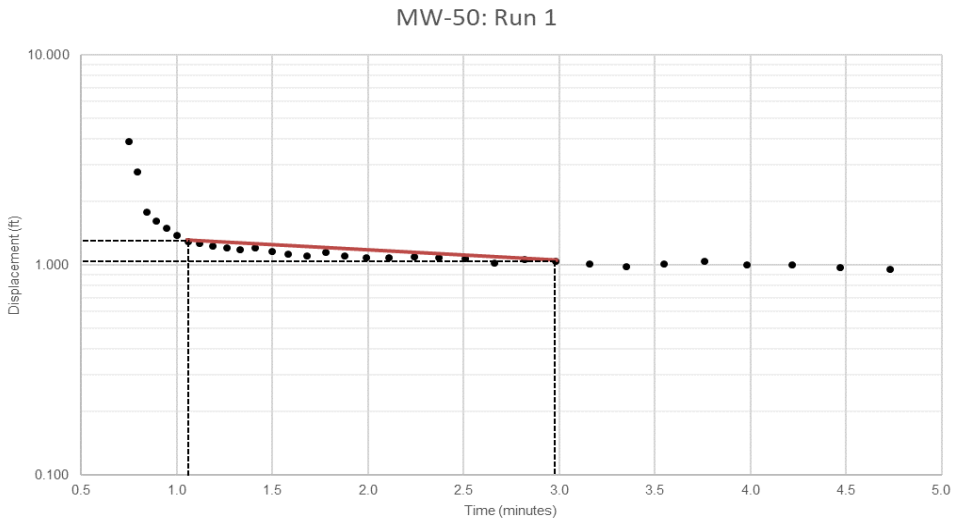
HYDRAULIC CONDUCTIVITY (CM/SEC) **8.75E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-50 - Run 1

Well Data		
Casing		
Radius (ft)	0.1667	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	22.06	**(Le)**
Well		
Water Column (ft)	22.06	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
0.841	1.788
1.000	1.378
1.060	1.287
1.680	1.101
1.780	1.151
2.110	1.085
2.510	1.071
2.980	1.040
4.730	0.957



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 4.2

Parameter B: 0.8

t=elapsed time (min)

HYDRAULIC CONDUCTIVITY (FT/DAY) 2.73E-01

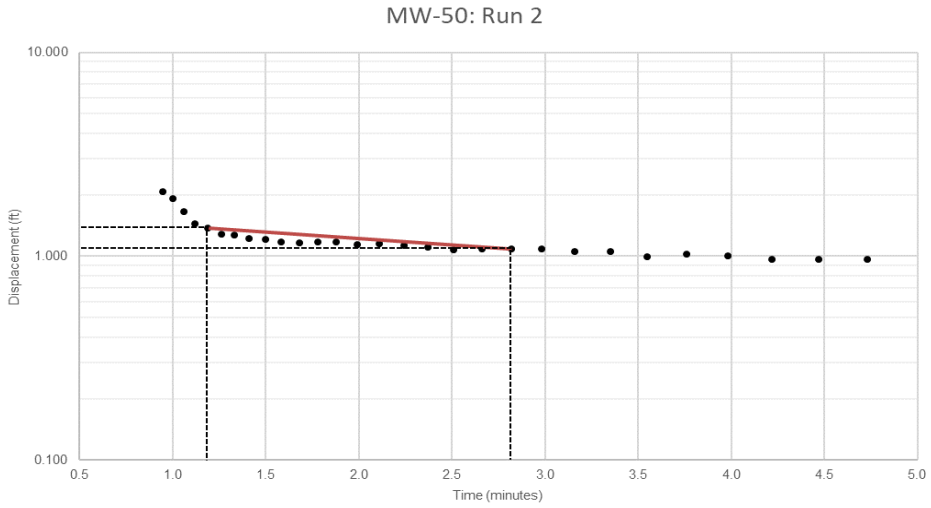
HYDRAULIC CONDUCTIVITY (CM/SEC) 9.62E-05

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-50 - Run 2

Well Data		
Casing		
Radius (ft)	0.1667	**(Rc)**
Borehole		
Radius (ft)	0.3438	**(Rw)**
Intake		
Length (ft)	22.06	**(Le)**
Well		
Water Column (ft)	22.06	**(Lw)**
Aquifer		
Thickness (ft)	30	**(H)**

Test Data (Partial List)	
ELAPSED TIME (min)	**DRAWDOWN (ft)**
1.000	1.920
1.120	1.438
1.190	1.376
1.500	1.212
1.780	1.171
2.110	1.148
2.510	1.074
2.820	1.087
10.000	0.734



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (L_w/r_w)} + \frac{A + B \ln [(H - L_w)/r_w]}{L_e/r} \right]^{-1}$$

Parameter A: 4.2

Parameter B: 0.8

t=elapsed time (min)

HYDRAULIC CONDUCTIVITY (FT/DAY) 3.55E-01

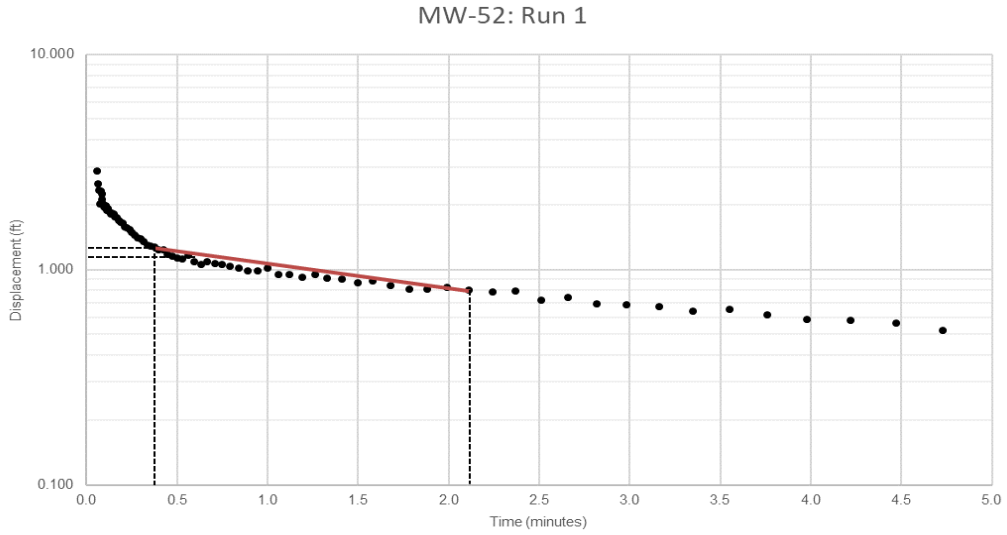
HYDRAULIC CONDUCTIVITY (CM/SEC) 1.25E-04

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-52-1

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.3333 (Rw)
Intake	
Length (ft)	21.47 (Le)
Well	
Water Column (ft)	21.47 (Lw)
Aquifer	
Thickness (ft)	21.47 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.355	1.284
0.376	1.270
0.398	1.231
0.891	0.988
0.944	0.988
1.000	1.016
1.060	0.946
2.110	0.802
4.730	0.523



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 3 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **7.51E-01**

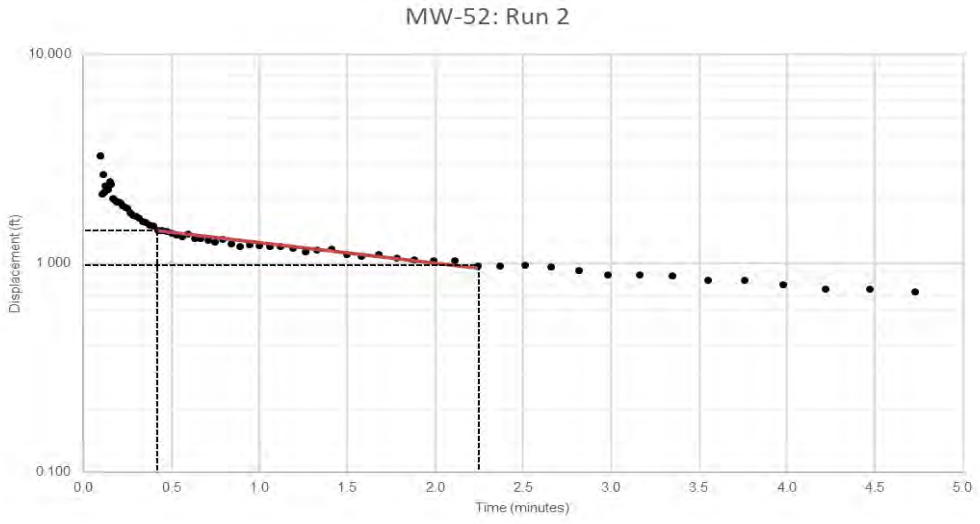
HYDRAULIC CONDUCTIVITY (CM/SEC) **2.65E-04**

AECOM RECOVERY TEST

Site Name: CPC Huntersville Well ID: MW-52 - Run 2

Well Data	
Casing	
Radius (ft)	0.1667 (Rc)
Borehole	
Radius (ft)	0.3333 (Rw)
Intake	
Length (ft)	21.47 (Le)
Well	
Water Column (ft)	21.47 (Lw)
Aquifer	
Thickness (ft)	21.47 (H)

Test Data (Partial List)	
Elapsed Time (min)	Drawdown (ft)
0.150	2.4680
0.266	1.7490
0.477	1.4400
0.708	1.2940
0.944	1.2250
1.680	1.0980
1.780	1.0620
2.240	0.9710
4.730	0.7290



Method: ***(Bouwer & Rice, 1976)***

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2L_e} \frac{1}{t} \ln \frac{y_0}{y_t}$$

Where:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w} \right]^{-1}$$

Parameter C: 3 ***t= elapsed time (min)***

HYDRAULIC CONDUCTIVITY (FT/DAY) **6.70E-01**

HYDRAULIC CONDUCTIVITY (CM/SEC) **2.36E-04**

APPENDIX E

GROUNDWATER SAMPLING LOGS

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 26.61	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)
= (37.25 feet – 26.61 feet) X 0.163 gallons/foot = 1.7 x3 = 5.2 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1411	1.7	1.7	—	—	6.34	14.9	115.8	7.63	-39.1	Light Brown	—
1414	1.7	3.4	—	—	6.22	14.8	119.3	6.78	-37.1	Brown	—
1417	1.7	5.2	—	—	6.26	15.0	115.8	6.53	-37.0	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: ETR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1417	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1	4	AG	40 mL	HCL	40 mL x 4	6.26	6200	B	
MW-1	3	AG	40 mL	HCL	40 mL x 3	6.26	VPH	B	
MW-1	1	PE	250 mL	HNO_3	250 mL	6.26	Lead by 6010	B	

REMARKS: TD 37.25

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 28.45	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)
= (36.90 feet – 28.45 feet) X 0.163 gallons/foot = 1.38 x3 = 4.13 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1114	1.35	1.35	~	~	6.53	15.0	105.6	5.40	-37.9	Clear	–
1121	1.35	2.7	~	~	6.58	14.5	106.3	6.49	-37.3	Brown	–
1126	1.35	4.3	~	~	6.79	14.8	105.2	5.80	-42.3	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: ETR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1126	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-2	4	AG	40 mL	HCL	40 mL x 4	6.79	6200	B	
MW-2	3	AG	40 mL	HCL	40 mL x 3	6.79	VPH	B	
MW-2	1	PE	250 mL	HNO_3	250 mL	6.79	Lead by 6010	B	

REMARKS: TD 36.90

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-03	SAMPLE ID: MW-03	DATE: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 19.47	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)
= (30.05 feet – 19.47 feet) X 0.163 gallons/foot = 1.72 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): 5.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1544	1.72	1.72	–	–	5.92	14.9	122.9	7.14	211.5	brown	none
1547	1.72	3.44	–	–	5.88	14.8	125.1	5.46	181.7	Brown	none
1550	1.72	5.16	–	–	5.72	14.7	121.6	5.32	190.4	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: 1550	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-03	4	AG	40 mL	HCL	40 mL x 4	5.72	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.81	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)
= (42.79 feet – 29.81 feet) X 0.163 gallons/foot = 2.11 x3 = 6.35 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1138	2.1	2.1	~	~	6.54	15.2	84.1	7.26	-35.2	Brown	—
1141	2.1	4.2	~	~	6.49	15.4	80.3	6.34	-32.8	Brown	—
1146	2.1	6.3	~	~	6.37	14.5	83.0	6.65	-25.8	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: ETR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1146	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-4	4	AG	40 mL	HCL	40 mL x 4	6.39	6200	B	
MW-4	3	AG	40 mL	HCL	40 mL x 3	6.39	VPH	B	
MW-4	1	PE	250 mL	HNO_3	250 mL	6.39	Lead by 6010	B	

REMARKS: TD 42.79

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.75	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)
= (41.70 feet – 24.75 feet) X 0.163 gallons/foot = 2.8 x3 = 8.3 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1503	2.8	2.8	~	~	6.24	18.6	85.0	7.18	-11.8	Brown	—
1507	2.8	5.6	~	~	6.22	16.4	81.0	5.84	-15.7	Brown	—
1511	2.8	8.3	~	~	6.19	15.8	82.9	5.27	-23.9	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: ETR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1511	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- µm

MW-4

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-5	4	AG	40 mL	HCL	40 mL x 4	6.19	6200		
MW-5	3	AG	40 mL	HCL	40 mL x 3	6.19	VPH		
MW-5	1	PE	250 mL	HNO_3	250 mL	6.19	Lead by 6010		

REMARKS: TD 41.70

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-6	SAMPLE ID: MW-6	DATE: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 22.06	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)
= (42.78 feet – 22.06 feet) X 0.163 gallons/foot = 3.4 x3 = 10.1 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	
1224	3.4	3.4	~	~	6.34	14.3	100.2	5.74	-38.8	Brown	—
1227	3.4	6.8	~	~	6.32	15.0	100.2	5.97	-40.3	Brown	—
1230	3.4	10.1	~	~	6.31	15.0	100.2	6.04	-46.3	Brown	—

ETR	[signature]	1230	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-6	4	AG	40 mL	HCL	40 mL x 4	6.31	6200	B	
MW-6	3	AG	40 mL	HCL	40 mL x 3	6.31	VPH	B	
MW-6	1	PE	250 mL	HNO_3	250 mL	6.31	Lead by 6010	B	

REMARKS: TD 42.78

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-07	SAMPLE ID: MW-07	DATE: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.09	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)
= (37.90 feet – 29.09 feet) X 0.163 gallons/foot = 1.44 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): 4.32

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1520	1.44	1.44	–	–	6.02	15.0	121.7	6.33	186.2	lt. brn	none
1523	1.44	2.88	–	–	6.04	15.1	123.7	7.01	188.5	brown	none
1525	1.44	4.32	–	–	5.97	14.7	122.1	6.67	192.1	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: 1525	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-07	4	AG	40 mL	HCL	40 mL x 4	5.97	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.02	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)
= (47.44 feet – 31.02 feet) X 0.653 gallons/foot = 10.7 x3 = 32 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1454	10.7	10.7	—	—	6.20	15.5	140.9	8.71	-53.9	Brown	NA
1502	10.7	21.4	—	—	6.30	15.6	143.0	5.55	-43.8	Brown	NA
1505	2.6	24	—	—	6.34	15.5	150.9	5.32	-41.6	Brown	NA

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: Erik Rigel AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1505	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-8	4	AG	40 mL	HCL	40 mL x 4	6.34	6200		
MW-8	3	AG	40 mL	HCL	40 mL x 3	6.34	VPH		
MW-8	1	PE	250 mL	HNO_3	250 mL	6.34	Lead by 6010		

REMARKS: TD 47.44 Dry @ 24 gal.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 28.47	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)
= (37.54 feet – 28.47 feet) X 0.163 gallons/foot = 1.5 x3 = 4.4 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1258	1.5	1.5	~	~	6.25	13.5	140.8	7.02	-36.7	Clear	—
1303	1.5	3.0	~	~	6.24	14.3	144.4	6.10	-32.7	Clear	—
1310	1.5	4.5	~	~	6.30	14.3	143.4	5.47	-36.3	Light 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: ETR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1310	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-9	4	AG	40 mL	HCL	40 mL x 4	6.30	6200	B	
MW-9	3	AG	40 mL	HCL	40 mL x 3	6.30	VPH	B	
MW-9	1	PE	250 mL	HNO_3	250 mL	6.30	Lead by 6010	B	

REMARKS: TD 37.54

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.87	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)
= (41.86 feet – 32.87 feet) X 0.163 gallons/foot = 1.47x3=4.4 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1010	1.47	1.47			6.60	13.5	175.2	5.99	-30.8	Clear	no
1015	2.94	1.47			6.57	14.3	178.1	5.92	-35.7	L. Brown	no
1020	4.41	1.47			6.58	13.6	187.3	6.12	-30.8	L. Brown	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: ETR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1025	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12	4	AG	40 mL	HCL	40 mL x 4	MW-12	6200	B	
MW-12	3	AG	40 mL	HCL	40 mL x 3	MW-12	VPH	B	
MW-12	1	PE	250 mL	HNO_3	250 mL	MW-12	Lead by 6010	B	

REMARKS: TD 41.86

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.90	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)
= (61.5 feet – 31.90 feet) X 0.65 gallons/foot = 29.6 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): 55	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55	PURGING INITIATED AT: 1545	PURGING ENDED AT: 1555	TOTAL VOLUME PURGED (gallons): 25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1545	0.00	0.00	2.5	31.90	6.15	16.2	263.4	3.23	128.3	Clear	None
1555	25	25	2.5	55	6.24	16.3	267.3	2.65	115.0	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: 1600	SAMPLING ENDED AT: 1605

PUMP OR TUBING DEPTH IN WELL (feet): 55	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
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-13	4	AG	40 mL	HCL	40 mL x 4	6.24	6200	ESP	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS: Dry @ 25 gal.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/5/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 30.64	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)
= (44.14 feet – 30.64 feet) X 0.65 gallons/foot = 8.78 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): 17.56

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1320	8.78	8.78	—	—	5.81	17.0	108.8	6.63	196.2	orange	none
1330	8.78	17.56	—	—	5.70	17.0	107.4	6.28	193.7	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: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1330	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-14	4	AG	40 mL	HCL	40 mL x 4	5.70	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS: dry @ 17.56 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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 / Dup-1-20210104	DATE: 1-4-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 34.60	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)
= (41.48 feet – 34.60 feet) X 0.163 gallons/foot = 1.12 x3 = 3.36 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0921	1.1	1.1	—	—	6.90	13.6	242.1	6.92	46.9	Brown	—
0924	1.1	2.2	—	—	6.59	14.4	151.6	6.75	10.4	Brown	—
0930	1.1	3.3	—	—	6.55	12.5	159.1	6.74	-24.4	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: ETR	SAMPLER(S) SIGNATURE(S):	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-15	4	AG	40 mL	HCL	40 mL x 4	6.55	6200	B	
MW-15	3	AG	40 mL	HCL	40 mL x 3	6.55	VPH	B	
MW-15	1	PE	250 mL	HNO_3	250 mL	6.55	Lead by 6010	B	

REMARKS: TD 41.48 Dup-1-20210104

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-16	SAMPLE ID: MW-16	DATE: 1/6/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.69	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)
= (51.8 feet – 33.69 feet) X 0.65 gallons/foot = 11.77 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): 13.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1112	11.77	11.77	—	—	6.20	16.6	157.2	5.13	145.1	orange	none
1115	1.33	13.0	—	—	6.43	17.1	159.3	4.99	125.1	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: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1115	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-16	4	AG	40 mL	HCL	40 mL x 4	6.43	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS: dry @ 13 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 35.65	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)
= (53.5 feet – 35.65 feet) X 0.65 gallons/foot = 11.60 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): 13.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1036	11.60	11.60	—	—	6.51	17.0	142.8	2.74	139.6	H. brn	none
1040	1.90	13.50	—	—	6.44	17.1	135.2	4.08	123.3	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: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1040	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-17	4	AG	40 mL	HCL	40 mL x 4	6.44	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS: dry @ 13.5 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.25	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)
= (38.06 feet – 31.25 feet) X 0.653 gallons/foot = 4.5 x3 = 13.5 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1241	4.5	4.5	—	—	6.42	18.1	197.0	2.58	-28.7	Brown	NA
1245	1.5	6	—	—	6.58	16.4	214.9	2.82	-36.9	Brown	NA

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: Erik Rigal AECom	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1245	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-17	4	AG	40 mL	HCL	40 mL x 4	6.58	6200	B	
MW-17	3	AG	40 mL	HCL	40 mL x 3	6.58	VPH	B	
MW-17	1	PE	250 mL	HNO_3	250 mL	6.58	Lead by 6010	B	

REMARKS: TD 31.25 Dry @ 6gal.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 42.29	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)
= (51.70 feet – 42.29 feet) X 0.163 gallons/foot = 1.53 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):
–	–	–	–	4.33

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1343	1.53	1.53	–	–	7.02	17.5	169.7	7.09	169.1	lt. brn	none
1346	1.53	3.06	–	–	6.31	17.3	158.6	6.46	174.9	lt. brn	none
1350	1.27	4.33	–	–	6.19	17.1	155.5	5.27	194.0	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:
Emily Love / AECOM	Emily R. Love	1350	–

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-20	4	AG	40 mL	HCL	40 mL x 4	6.19	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS: dry @ 4.33 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.86	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)
= (53.7 feet – 32.86 feet) X 0.65 gallons/foot = 13.55 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): 48.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 48.7	PURGING INITIATED AT: 1200	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons): 27.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1207	13.55	13.55	1.94	45.47	6.52	17.6	245.5	4.06	123.6	clear	none
1215	13.55	27.10	1.94	dry	6.95	18.3	309.7	3.68	46.4	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: 1215	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 48.7	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
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-21	4	AG	40 mL	HCL	40 mL x 4	6.95	6200	ESP	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS: dry @ 27.1 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/21

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)
= (48.10 feet – 29.87 feet) X 0.163 gallons/foot = 2.9 x3 = 8.9 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1059	3	3	—	—	6.18	16.9	109.1	6.04	-48.1	Brown	NA
1104	3	6	—	—	6.18	16.8	114.6	5.69	-52.1	Brown	NA
1110	3	9	—	—	6.23	15.6	130.7	5.67	-53.5	Brown	NA

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: Erik Rigel AECom	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1110	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-23	4	AG	40 mL	HCL	40 mL x 4	6.23	6200	B	
MW-23	3	AG	40 mL	HCL	40 mL x 3	6.23	VPH	B	
MW-23	1	PE	250 mL	HNO_3	250 mL	6.23	Lead by 6010	B	

REMARKS: TD 4810

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 43.95	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)
= (61.05 feet – 43.95 feet) X 0.163 gallons/foot = 2.79 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):
–	–	–	–	8.37

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1407	2.79	2.79	–	–	5.91	15.8	172.8	6.97	197.6	Brown	none
1410	2.79	5.58	–	–	5.88	15.8	178.9	7.17	199.6	Brown	none
1415	2.79	8.37	–	–	6.05	15.6	175.8	7.07	202.4	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	1415	–

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-25	4	AG	40 mL	HCL	40 mL x 4	6.05	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.07	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)
= (45.02 feet – 33.07 feet) X 0.163 gallons/foot = 1.95 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):
–	–	–	–	5.85

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1454	1.95	1.95	–	–	6.15	15.2	125.1	7.06	188.3	lt. brn	none
1457	1.95	3.90	–	–	5.78	15.1	121.3	6.42	200.8	lt. brn	none
1500	1.95	5.85	–	–	5.72	15.1	119.4	6.22	204.6	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	1500	–

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-27	4	AG	40 mL	HCL	40 mL x 4	5.72	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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/Dup-1-20210106	DATE: 1/6/21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.02	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)
= (39.71 feet – 29.02 feet) X 0.163 gallons/foot = 1.7 x3 = 5.2 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1010	1.7	1.7	—	—	6.38	17.2	157.5	4.78	-62.2	Brown	NA
1013	1.7	3.4	—	—	6.20	17.5	141.8	5.12	-56.1	Brown	NA
1016	1.7	5.2	—	—	6.20	16.9	158.9	4.86	-35.9	Brown	NA

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: Erik Rigel AECom	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1016	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-28	4	AG	40 mL	HCL	40 mL x 4	6.20	6200	B	
MW-28	3	AG	40 mL	HCL	40 mL x 3	6.20	VPH	B	
MW-28	1	PE	250 mL	HNO_3	250 mL	6.20	Lead by 6010	B	

REMARKS: TD 39.71

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-05-21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.52	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)
= (53.3 feet – 29.8 feet) X 0.653 gallons/foot = 15 x3 = 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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1357	15	15	—	—	6.51	13.7	180.2	4.40	-60.2	Br	n/a
1402	15	30	—	—	6.29	13.9	177.6	1.57	-57.3	Br	n/a
1407	15	45	—	—	6.52	14.2	179.3	4.42	-61.5	Br	n/a

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 Hughes AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1407	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 (including wet ice)					
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	40 mL	HCL	40 mL x 4		6200	B	
	3	AG	40 mL	HCL	40 mL x 3		VPH	B	
	1	PE	250 mL	HNO_3	250 mL		Lead by 6010	B	

REMARKS: TD 50.80 DUP-1

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-04-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.09	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)
= (38.15 feet – 29.09 feet) X 0.163 gallons/foot = 1.4 x3 = 4.2 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1339	1.4	1.4	~	~	6.28	15.2	145.8	5.94	-45.6	Clear	—
1342	1.4	2.8	~	~	6.21	14.9	144.2	5.09	-45.7	Clear	—
1345	1.4	4.2	~	~	6.21	14.9	143.4	4.84	-43.0	Clear	—

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: ETR	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1345	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-30	4	AG	40 mL	HCL	40 mL x 4	6.21	6200	B	
MW-30	3	AG	40 mL	HCL	40 mL x 3	6.21	VPH	B	
MW-30	1	PE	250 mL	HNO_3	250 mL	6.21	Lead by 6010	B	

REMARKS: TD 38.15

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/21

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)
= (46.38 feet – 27.53 feet) X 0.653 gallons/foot = 12.3 x3 = 36.9 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1140	12.3	12.3	—	—	6.13	18.0	146.6	3.98	-51.7	Brown	NA
1144	12.3	24.6	—	—	6.20	18.1	163.1	3.46	-60.3	Brown	NA
1148	12.3	36.9	—	—	6.41	16.9	186.3	2.87	-63.4	Brown	NA

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: Erik Rigel AECom	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1148	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-31	4	AG	40 mL	HCL	40 mL x 4	6.41	6200	B	
MW-31	3	AG	40 mL	HCL	40 mL x 3	6.41	VPH	B	
MW-31	1	PE	250 mL	HNO_3	250 mL	6.41	Lead by 6010	B	

REMARKS: TD 46.38 YSI Battery Changed Before last Reading.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.20	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)
= (28.21 feet – 13.20 feet) X 0.163 gallons/foot = 2.45 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):
–	–	–	–	6.35

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1021	2.45	2.45	–	–	5.94	14.8	110.3	4.47	155.2	brown	none
1024	2.45	4.90	–	–	6.12	15.2	112.7	4.76	150.5	brown	none
1030	2.45	6.35	–	–	6.21	14.4	105.3	4.85	152.6	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	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-32	4	AG	40 mL	HCL	40 mL x 4	6.21	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.03	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)
= (27.65 feet – 10.03 feet) X 0.163 gallons/foot = 2.87 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):
–	–	–	–	8.61

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1052	2.87	2.87	–	–	6.27	14.7	111.3	6.25	157.3	lt. brn	none
1056	2.87	5.74	–	–	6.22	15.2	135.1	6.06	156.1	lt. brn	none
1100	2.87	8.61	–	–	6.19	15.2	125.2	6.13	155.7	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-33	4	AG	40 mL	HCL	40 mL x 4	6.19	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.62	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)
= (23.14 feet – 7.62 feet) X 0.163 gallons/foot = 2.53 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): 7.59

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1112	2.53	2.53	–	–	6.14	13.9	215.4	5.19	169.2	H.brn	none
1115	2.53	5.06	–	–	6.13	14.5	229.6	5.19	171.0	H.brn	none
1120	2.53	7.59	–	–	6.23	13.7	226.4	4.37	161.8	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: 1120	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 (including wet ice)					
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	40 mL	HCL	40 mL x 4	6.23	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 23.94	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)
= (40.31 feet – 23.94 feet) X 0.163 gallons/foot = 2.67 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
–	–	–	–	8.01

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0836	2.67	2.67	–	–	6.82	14.8	195.4	6.75	148.7	lt. brn	none
0839	2.67	5.34	–	–	6.40	14.9	144.9	6.39	145.7	lt. brn	none
0845	2.67	8.01	–	–	6.19	13.8	138.6	6.14	149.1	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	0845	–

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-35	4	AG	40 mL	HCL	40 mL x 4	6.19	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 25.91	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)
= (45.0 feet – 25.91 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):
–	–	–	–	9.33

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0910	3.11	3.11	–	–	6.09	14.1	131.5	6.64	158.6	lt.brn	none
0915	3.11	6.22	–	–	6.27	14.8	137.2	6.70	142.7	lt.brn	none
0920	3.11	9.33	–	–	6.40	14.5	136.8	6.86	143.7	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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Emily Love / AECOM	Emily R. Love	0920	–

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-36	4	AG	40 mL	HCL	40 mL x 4	6.40	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/4/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 26.73	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)
= (38.14 feet – 26.73 feet) X 0.163 gallons/foot = 1.86 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):
—	—	—	—	5.58

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0943	1.86	1.86	—	—	6.20	14.7	117.6	5.73	151.4	lt. brn	none
0947	1.86	3.72	—	—	6.30	14.8	119.6	7.12	141.0	lt. brn	none
0950	1.86	5.58	—	—	6.32	14.0	119.3	6.63	143.8	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:
Emily Love / AECOM	Emily R. Love	0950	—

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-37	4	AG	40 mL	HCL	40 mL x 4	6.32	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.31	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)
= (56.15 feet – 38.31 feet) X 0.65 gallons/foot = 11.6 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): 23.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1630	11.6	11.6	—	—	6.60	15.0	141.1	4.22	128.0	lt. brn	none
1635	11.6	23.2	—	—	6.56	15.6	140.0	2.75	132.8	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: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1635	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-38	4	AG	40 mL	HCL	40 mL x 4	5.56	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS: dry @ 23.2 gal

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-40	SAMPLE ID: MW-40	DATE: 1/6/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.88	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)
= (40.3 feet – 33.88 feet) X 0.163 gallons/foot = 1.05 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): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1210	1.05	1.05	—	—	6.22	18.5	172.8	2.53	64.7	H. brn	petrol

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: 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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-40	4	AG	40 mL	HCL	40 mL x 4	6.22	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/5/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 54.28	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)
= (69 feet – 54.28 feet) X 0.163 gallons/foot = 2.4 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0945	2.4	2.4	—	—	6.90	14.3	115.1	7.77	174.3	Brown	Sulfur
0950	2.4	4.8	—	—	6.54	14.9	103.9	7.73	174.8	Brown	Sulfur
1000	2.4	7.2	—	—	6.35	15.2	104.6	7.10	167.8	Brown	Sulfur

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-41	4	AG	40 mL	HCL	40 mL x 4	6.35	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.64	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)
= (52 feet – 38.64 feet) X 0.65 gallons/foot = 8.68 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): 47	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47	PURGING INITIATED AT: 0958	PURGING ENDED AT: 1005	TOTAL VOLUME PURGED (gallons): 8.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1005	8.68	8.68	1.24	dry	6.55	16.5	142.6	2.66	108.4	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: 1005	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 47	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- µm
FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N (replaced))		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
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-42	4	AG	40 mL	HCL	40 mL x 4	6.55	6200	ESP	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-05-21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.52	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)
= (50.80 feet – 38.52 feet) X 0.653 gallons/foot = 8 x3=24 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1510	8	8	—	—	6.35	15.7	191.7	4.40	-70.2	Clear	n/a
1515	8	16	—	—	6.36	14.9	198.1	4.57	-72.4	Clear	n/a
1520	8	24	—	—	6.35	13.41	216.2	4.42	-71.41	clear	n/a

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 Hughes AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1525	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-41	4	AG	40 mL	HCL	40 mL x 4	6.35	6200	B	
MW-41	3	AG	40 mL	HCL	40 mL x 3	6.35	VPH	B	
MW-41	1	PE	250 mL	HNO_3	250 mL	6.35	Lead by 6010	B	

REMARKS: TD 50.80

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/5/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.33	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)
= (35.0 feet – 32.33 feet) X 0.65 gallons/foot = 1.74 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): 1.74

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1030	1.74	1.74	–	–	6.45	14.7	244.3	6.06	131.4	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: 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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-44	4	AG	40 mL	HCL	40 mL x 4	6.45	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS: dry @ 1.74 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/5/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 35.18	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)
= (54.15 feet – 35.18 feet) X 0.65 gallons/foot = 12.33 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): 19.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1456	12.33	12.33	–	–	5.69	16.3	231.0	5.07	219.7	Brown	none
1500	7.17	19.5	–	–	6.29	16.0	225.9	5.12	198.4	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: 1500	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 (including wet ice)					
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	40 mL	HCL	40 mL x 4	6.29	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.72	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 feet – 31.72 feet) X 0.65 gallons/foot = 7.98 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): 7.98

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1450	7.98	7.98	—	—	6.47	16.3	354.8	6.00	113.6	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: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1450	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 (including wet ice)					
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	40 mL	HCL	40 mL x 4	6.47	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS: dry @ 7.98 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 11 feet to 51 feet	STATIC DEPTH TO WATER (feet): 35.86	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)
= (55.45 feet – 33.47 feet) X 0.653 gallons/foot = 14.4 X 3 = 43.1 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1140	14.4	14.4	—	—	6.26	15.8	370.2	4.49	-81.6	Brown	NA
1150	14.4	28.8	—	—	6.17	15.8	318.1	5.17	-75.2	Brown	NA
1200	14.4	43.1	—	—	6.23	14.9	233.3	5.59	-67.0	Brown	NA

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: Erik Rigel / AECOM	SAMPLER(S) SIGNATURE(S):	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 (including wet ice)					
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-49	4	AG	40 mL	HCL	40 mL x 4	6.23	6200	B	
MW-49	3	AG	40 mL	HCL	40 mL x 3	6.23	VPH	B	
MW-49	1	PE	250 mL	HNO_3	250 mL	6.23	Lead by 6010	B	

REMARKS: TD 55.45

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/6/21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 36.85	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)
= (57.74 feet – 36.85 feet) X 0.653 gallons/foot = 13.6 x3 = 41 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1543	13.6	13.6	—	—	6.08	15.8	179.3	1.15	-51.6	Clear	NA
1553	13.6	27.2	—	—	6.21	16.0	189.3	1.72	-54.6	Light Brown	NA
1600	13.6	41	—	—	6.23	16.1	190.1	3.44	-54.7	Brown	NA

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: Erik Rigel AECom	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1600	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-50	4	AG	40 mL	HCL	40 mL x 4	6.23	6200	B	
MW-50	3	AG	40 mL	HCL	40 mL x 3	6.23	VPH	B	
MW-50	1	PE	250 mL	HNO_3	250 mL	6.23	Lead by 6010	B	

REMARKS: TD 57.74

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/5/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 37.05	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)
= (47.4 feet – 37.05 feet) X 0.65 gallons/foot = 6.73 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1522	6.73	6.73	—	—	6.33	16.0	213.5	2.82	188.1	Brown	None
1530	4.27	11	—	—	6.46	15.3	213.9	3.54	185.0	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: 1530	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-51	4	AG	40 mL	HCL	40 mL x 4	6.46	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-05-21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.55	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)
= (54.9-33.55 feet – feet) X 0.653 gallons/foot = 14x3=42 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1115	14	14			6.51	13.6	194.2	3.45	-65.9	Br	N/A
1130	14	28			6.56	13.9	216.0	3.21	-49.0	Br	N/A
1145	14	42			6.60	14.3	223.2	2.65	-56.6	Br	N/A

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 Hughes AECOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1150	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-52	4	AG	40 mL	HCL	40 mL x 4	6.60	6200	B	
MW-52	3	AG	40 mL	HCL	40 mL x 3	6.60	VPH	B	
MW-52	1	PE	250 mL	HNO_3	250 mL	6.60	Lead by 6010	B	

REMARKS: TD 54.9

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.59	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)
= (60.65 feet – 24.59 feet) X 0.653 gallons/foot = 23.5 X 3 = 70.6 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1434	23.5	23.5	—	—	6.40	14.1	201.2	4.24	-77.5	Brown	NA
1500	16.5	40	—	—	6.24	14.4	176.8	4.08	-77.6	Brown	NA

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: Erik Rigal / ACCOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1500	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-53	4	AG	40 mL	HCL	40 mL x 4	6.24	6200	B	
MW-53	3	AG	40 mL	HCL	40 mL x 3	6.24	VPH	B	
MW-53	1	PE	250 mL	HNO_3	250 mL	6.24	Lead by 6010	B	

REMARKS: TD 60.65 Dry @ 40 gal

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.52	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)
= (62.38 feet – 24.52 feet) X 0.653 gallons/foot = 24.7 X 3 = 74.2 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1505	24.7	24.7	—	—	6.37	14.5	156.9	2.89	-77.0	Brown	NA
1530	20.3	45	—	—	6.44	14.5	162.5	2.88	-67.6	Brown	NA

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: Erik Rigel / ACCOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1530	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-54	4	AG	40 mL	HCL	40 mL x 4	6.44	6200	B	
MW-54	3	AG	40 mL	HCL	40 mL x 3	6.44	VPH	B	
MW-54	1	PE	250 mL	HNO_3	250 mL	6.44	Lead by 6010	B	

REMARKS: TD 62.38 Dry @ 45

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.30	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)
= (43.60 feet – 10.30 feet) X 0.65 gallons/foot = 21.65 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): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1131	PURGING ENDED AT: 1153	TOTAL VOLUME PURGED (gallons): 50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1141	21.65	21.65	2.165	24.54	6.21	15.2	158.2	4.16	131.9	clear	none
1150	21.65	43.30	2.41	36.28	6.44	15.2	157.2	5.96	120.2	clear	none
1153	6.7	50	2.23	dry	6.25	15.0	156.5	4.73	129.7	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: 1155	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet): 47	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
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-56	4	AG	40 mL	HCL	40 mL x 4	6.25	6200	ESP	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.99	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)
= (47.8 feet – 10.99 feet) X 0.65 gallons/foot = 23.93 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): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1223	PURGING ENDED AT: 1252	TOTAL VOLUME PURGED (gallons): 71.79

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1232	23.93	23.93	2.66	26	6.06	14.7	143.2	5.57	133.3	clear	none
1242	23.93	47.86	2.66	34	6.33	14.5	123.1	5.79	124.4	clear	none
1252	23.93	71.79	2.66	40	6.26	14.5	124.6	5.82	134.4	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: 1255	SAMPLING ENDED AT: 1300

PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-57	4	AG	40 mL	HCL	40 mL x 4	6.26	6200	ESP	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-05-21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.09	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)
= (52.52 feet – 29.03 feet) X 0.653 gallons/foot = 15 x3 = 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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0855	15	15			6.82	12.9	103.4	5.58	-59.8	Bc	N/A
0900	15	30			6.38	13.7	98.2	5.36	-53.9	Bc	N/A
0915	16	45			6.33	13.4	101.7	4.36	-46.3	Bc	N/A

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 Hughes AECOM	SAMPLER(S) SIGNATURE(S):	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-58	4	AG	40 mL	HCL	40 mL x 4	6.33	6200	B	
MW-58	3	AG	40 mL	HCL	40 mL x 3	6.33	VPH	B	
MW-58	1	PE	250 mL	HNO_3	250 mL	6.33	Lead by 6010	B	

REMARKS: TD 52.52

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 01-05-21

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 30.65	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)
= (53.25 feet – 30.65 feet) X 0.653 gallons/foot = 15 x3 = 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):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1000	15	15			5.99	13.2	95.7	4.59	-50.4	Bc	N/A
1015	15	30			5.92	13.9	94.2	4.54	-49.8	Bc	N/A
1025	16	46			6.06	13.9	95.6	5.17	-44.4	Bc	N/A

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:
Ben Hughes AECOM		1035	

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-59	4	AG	40 mL	HCL	40 mL x 4	6.06	6200	B	
MW-59	3	AG	40 mL	HCL	40 mL x 3	6.06	VPH	B	
MW-59	1	PE	250 mL	HNO_3	250 mL	6.06	Lead by 6010	B	

REMARKS: TD 53.25

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/5/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.87	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)
= (47.85 feet – 32.87 feet) X 0.65 gallons/foot = 2.4 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): 9.74

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1120	9.74	9.74	–	–	6.57	16.1	112.5	7.21	134.9	orange	none
1130	9.74	19.48	–	–	6.04	16.2	116.9	6.31	157.3	orange	none
1140	9.74	29.22	–	–	6.12	16.2	120.4	7.15	156.7	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: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1140	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-60	4	AG	40 mL	HCL	40 mL x 4	6.12	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/5/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): –	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 36.79	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)
= (39.3 feet – 36.79 feet) X 0.65 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):
–	–	–	–	1.63

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1045	1.63	1.63	–	–	6.82	16.1	134.1	5.59	114.5	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	1045	–

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-62	4	AG	40 mL	HCL	40 mL x 4	6.82	6200	B	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS: dry @ 1.63 gallons

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP 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: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 39.81	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)
= (63 feet – 39.81 feet) X 0.65 gallons/foot = 15.07 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): 58	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58	PURGING INITIATED AT: 1451	PURGING ENDED AT: 1518	TOTAL VOLUME PURGED (gallons): 45.21

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1458	15.07	15.07	1.507	46	6.26	15.5	159.5	7.32	138.8	clear	none
1508	15.07	30.14	1.507	52	6.57	15.9	162.6	5.28	129.7	clear	none
1518	15.07	45.21	1.507	56	6.41	15.9	159.0	5.82	135.9	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: 1520	SAMPLING ENDED AT: 1525
PUMP OR TUBING DEPTH IN WELL (feet): 58	TUBING MATERIAL CODE: LDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type: --	FILTER SIZE: -- µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
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-63	4	AG	40 mL	HCL	40 mL x 4	6.41	6200	ESP	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-64	SAMPLE ID: MW-64 / Dup-1-20210107	DATE: 1/7/21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.30	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)
= (69.70 feet – 38.30 feet) X 0.163 gallons/foot = 5.1 x3 = 15.3 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0854	5.1	5.1	—	—	7.35	13.6	210.7	4.82	-91.0	Brown	NA
0904	5.1	10.2	—	—	7.04	16.0	217.7	2.99	-90.7	Brown	NA
0914	5.1	15.3	—	—	7.06	16.1	213.3	4.21	-85.8	Brown	NA

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:
Erik Riegel / AECOM		0914	

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-64	4	AG	40 mL	HCL	40 mL x 4	7.06	6200	B	
MW-64	3	AG	40 mL	HCL	40 mL x 3	7.06	VPH	B	
MW-64	1	PE	250 mL	HNO_3	250 mL	7.06	Lead by 6010	B	

REMARKS: ~~TD 38.30~~ 69.70

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-65	SAMPLE ID: MW-65	DATE: 1/7/21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 23.26	PURGE PUMP TYPE OR BAILER: Baker

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (37.90 feet – 23.26 feet) X 0.163 gallons/foot = 2.7x3=8.1 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0937	2.7	2.7	—	—	6.81	15.5	131.5	2.95	-94.0	Brown	NA
0945	2.7	5.4	—	—	6.68	16.5	138.5	2.21	-90.7	Brown	NA
0950	2.7	8.1	—	—	6.74	16.5	135.4	4.02	-86.1	Brown	NA

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:
Erik Rigel / AECOM		0950	

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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-65	4	AG	40 mL	HCL	40 mL x 4	6.74	6200	B	
MW-65	3	AG	40 mL	HCL	40 mL x 3	6.74	VPH	B	
MW-65	1	PE	250 mL	HNO_3	250 mL	6.74	Lead by 6010	B	

REMARKS: TD 39.90

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-66	SAMPLE ID: MW-66	DATE: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 40.76	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)
= (56.6 feet – 40.76 feet) X 0.163 gallons/foot = 2.58 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0910	2.58	2.58	—	—	6.77	17.1	142.6	6.36	110.0	H. brn	none
0915	2.58	5.16	—	—	6.78	17.1	147.9	6.77	102.2	H. brn	none
0920	2.58		—	—	6.67	17.1	137.2	6.62	117.7	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: 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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-66	4	AG	40 mL	HCL	40 mL x 4	6.67	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-67	SAMPLE ID: MW-67	DATE: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.08	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)
= (45.4 feet – 32.08 feet) X 0.163 gallons/foot = 2.17 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): 2.66

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0857	2.17	2.17	–	–	7.96	16.5	243.5	3.12	146.1	lt. brn	none
0900	0.49	2.66	–	–	7.38	16.0	204.2	4.28	114.0	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: 0900	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 (including wet ice)					
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-67	4	AG	40 mL	HCL	40 mL x 4	7.38	6200	Bailer	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-68	SAMPLE ID: MW-68	DATE: 1/7/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.13	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)
= (57.9 feet – 38.13 feet) X 0.163 gallons/foot = 3.22 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): 8.66

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0952	3.22	3.22	–	–	6.81	14.8	196.6	7.44	109.0	lt. brn	none
0955	3.22	6.44	–	–	6.72	16.4	204.2	7.19	116.7	lt. brn	none
1000	3.22	8.66	–	–	7.01	15.6	201.6	6.76	116.4	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-68	4	AG	40 mL	HCL	40 mL x 4	7.01	6200	Bailer	–
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	–
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-69	SAMPLE ID: MW-69	DATE: 1/6/2021

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 50.19	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)
= (58.9 feet – 50.19 feet) X 0.65 gallons/foot = 5.66 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): 16.98

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
0930	5.66	5.66	—	—	7.55	15.2	351.4	4.86	149.4	Brown	none
0935	5.66	11.32	—	—	7.85	15.4	376.5	7.19	133.3	Brown	none
0940	5.66	16.98	—	—	7.51	13.9	318.1	6.42	133.8	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: 0940	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-69	4	AG	40 mL	HCL	40 mL x 4	7.51	6200	B	—
"	3	AG	40 mL	HCL	40 mL x 3	"	VPH	"	—
"	1	PE	250 mL	HNO_3	250 mL	"	Lead by 6010	"	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC	
WELL NO: MW-70	SAMPLE ID: MW-70	DATE: 1/7/21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 35.86	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)
= (47.93 feet – 35.86 feet) X 0.163 gallons/foot = 2 X 3 = 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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	COLOR (describe)	ODOR (describe)
1004	2	2	—	—	6.88	16.4	235.6	3.16	-88.2	Brown	NA
1008	2	4	—	—	7.13	16.5	241.2	2.10	-90.7	Brown	NA
1012	2	6	—	—	7.09	16.5	228.6	2.51	-96.8	Brown	NA

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: Erik Rigol / ACCOM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1012	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 (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-70	4	AG	40 mL	HCL	40 mL x 4	7.09	6200	B	
MW-70	3	AG	40 mL	HCL	40 mL x 3	7.09	VPH	B	
MW-70	1	PE	250 mL	HNO_3	250 mL	7.09	Lead by 6010	B	

REMARKS: TD 47.93

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

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)

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1/7/21 Time: 1550

Apex Personnel: Tom NAUMANN

Location (Site/Facility Name): CPC HUNTERSVILLE

Monitor Well Number: MW-620 (125-143)

Purpose of Sampling Event: PACER SAMPLING

Weather/Temp: _____

Circle:

Measuring Point (MP): ~~top of~~ casing (top of ground)

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: (PVC) Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: 200 mL/min

Well Cover Bolted: Yes No (N/A)

Well Cap Condition: (Good) Replaced

Well Cap Locked: (Yes) No Replaced

Well Tag Present: (Yes) No

Well Info. On Tag: (Yes) No

Well Diameter (inches) 4"

Well Type: ~~well~~ surface completion, (above grade)

Well Screen Length (feet): 5, 10, 15, 20, Other: OPEN HOLE

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon) Grundfos;

OTHER: _____

Noticeable Odor: NO

Sample Color: CLEAR

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	Gallons	Liters	Circle: (°C) °F	Circle: (mS/cm) µS/cm	SU	mV	mg/L	NTU		
Initial			1	12.45	0.266	9.15	67	13.03	64.4		
1555			2	12.84	0.261	8.54	87	3.29	253		
1600			3	13.90	0.258	7.89	101	2.15	104		
1605			4	15.17	0.258	7.74	109	1.64	53.6		
1610			5	15.36	0.257	7.74	115	1.28	44.5		
1615			6	15.48	0.257	7.76	120	1.20	42.3		
1620			7	15.52	0.257	7.71	122	1.12	42.5	PARAMETERS STABLE	
1630	SAMPLE TIME										
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, (Horiba U-52) Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-620 (125-143)				PACE	1/7/21	1630

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1/7/21 Time: 1145

Apex Personnel: Tom NAUMANN

Location (Site/Facility Name): CPC HUNTSVILLE

Monitor Well Number: MW-65D (115-150)

Purpose of Sampling Event: BACKGR

Weather/Temp:

Circle:

Measuring Point (MP): top of casing top of ground TOP OF PACKER RODS

Depth to Product (MP): N/A

Depth to Water (MP):

Total Depth of Well (MP): (0.1')

Water Column thickness (ft):

Well Material: (PVC) Stainless Steel, Other:

Well pad condition: (Good) Cracked Replace

Low Flow purge rate: 200 mL/min

Well Cover Bolted: (Yes) No

Well Cap Condition: (Good) Replaced

Well Cap Locked: (Yes) No Replaced

Well Tag Present: Yes No

Well Info. On Tag: Yes No

Well Diameter (inches): 6"

Well Type: surface completion, above grade

Well Screen Length (feet): 5, 10, 15, 20, Other: OPEN HOLE

Pump Intake depth (Feet above TD): 120

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon) Grundfos;

OTHER:

Noticeable Odor: NO

Sample Color: CLEAR

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: (mS/cm) µS/cm	SU	mV	mg/L	NTU	
Initial			1	13.25	0.288	6.75	7	16.41	1.6	
1200			2	13.49	0.286	6.77	31	14.33	11.4	
1205			3	13.	0.250	6.96	75	13.41	11.4	
1210			4	13.86	0.290	6.98	77	13.34	11.3	
1215			5	13.8	0.290	6.98	82	13.12	11.4	PARAMETERS STABILIZED
1230	SAMPLE TIME									
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:
FRACTURE @ 118
PUMP @ ~120
PACKER @ 115
BOTTOM

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, (Horiba U-52,) Hanna turbidity; Other:

Parameters Stabilized (circle): (YES) NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-65D (115-150)	VOL, VPH			PACE	1/7/21	1230
DUP-1-20210107						

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1/9/2021 Time: 1450

Apex Personnel: Tom NAUMANN

Location (Site/Facility Name): CPC HUNTERSVILLE

Monitor Well Number: MW-25D (125-139)

Purpose of Sampling Event: PACKER SAMPLING

Weather/Temp: CLEAR ~40° F

Circle:

Measuring Point (MP): top of casing / top of ground

Depth to Product (MP): N/A

Depth to Water (MP): 39.55

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: PVC / Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace N/A

Low Flow purge rate: 200 mL/min

Well Cover Bolted: Yes No N/A

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: Yes No

Well Info. On Tag: Yes No

Well Diameter (inches) 4"

Well Type: surface completion, above grade

Well Screen Length (feet): 5, 10, 15, 20, Other: OPEN HOLE

Pump Intake depth (Feet above TD): ~130

Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;

OTHER: _____

Noticeable Odor: NO

Sample Color: CLEAR / CLOUDY GRAY

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU		
Initial	39.55		1	14.50	0.344	7.51	55	16.55	>1k		
1500	39.57		2	14.77	0.343	7.39	37	14.02	71000		
1505	39.58		3	13.91	0.340	7.34	31	13.74	>1000		
1510	39.59		4	13.48	0.343	7.32	33	13.33	71,000		
1515	39.59		5	13.48	0.344	7.28	40	4.58	986		
1520	39.59		6	13.40	0.344	7.29	45	1.85	879		
1525	39.60		7	13.46	0.343	7.32	53	1.81	769		
1530	39.60		8	13.38	0.342	7.31	59	1.76	615		
1535	39.61		9	13.35	0.342	7.31	63	1.72	514		
1540	39.61		10	13.30	0.342	7.31	67	1.69	459		
1545	39.61		11	13.26	0.342	7.30	70	1.68	438		
1550	39.61		12	13.21	0.341	7.30	71	1.67	418	PARAMETERS STABLE	
1600	SAMPLE TIME										
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-25D (125-139)	VOC, VPH, LEAD			PACE	1/9/21	1600
DUP-1-20210109						

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-10-2021 Time: 1343 Monitor Well Number: MW-7D (120.127)

Apex Personnel: AF Purpose of Sampling Event: _____

Location (Site/Facility Name): CPC Hunterstville CPC20126 Weather/Temp: Sunny ~42

Circle:

Measuring Point (MP): ~~top of casing~~ top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: PVC, ~~Stainless Steel~~, Other: _____

Well pad condition: Good Cracked Replace NA

Low Flow purge rate: 1gpm mL/min

Well Cover Bolted: Yes (No)

Well Cap Condition: (Good) Replaced

Well Cap Locked: (Yes) No Replaced

Well Tag Present: (Yes) No

Well Info. On Tag: (Yes) No

Well Diameter (inches) 4"

Well Type: surface completion, (above grade)

Well Screen Length (feet): 5, 10, 15, 20, Other: -

Pump Intake depth (Feet above TD): -

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon), Grundfos;

OTHER: _____

Noticeable Odor: -

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	Gallons	Liters	Circle: (°C) °F	Circle: (mS/cm) µS/cm	SU	mV	mg/L	NTU		
Initial	27.75			15.30	0.304	6.28	69	3.74	355		
1348				15.33	0.308	6.33	76	3.57	320		
1353				15.43	0.326	6.45	76	3.52	367		
1358				15.46	0.338	6.59	65	3.75	207		
1403				15.50	0.341	6.68	80	4.19	132		
1408				15.50	0.339	6.67	84	5.99	69.9		
1413				15.58	0.333	6.73	92	5.15	52.1		
1418				15.55	0.330	6.76	83	5.33	37.1		
1423				15.61	0.326	6.74	96	5.19	40.9		
1428				15.60	0.323	6.75	103	4.70	155		
1433				15.59	0.315	6.69	50	4.06	291		
1438				15.64	0.311	6.67	34	3.75	377		→ Pull sample due to rising turbidity
1443											
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, (Horiba U-52,) Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MWD(120-127) 8 samples	VOCs 6200B MADEP VPH Lead	VOA Plastic	HCL HNO_3	Pace	1-10-21	1440

Page _____ of _____ Pages

Version 1.2020

DUP-6

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-10-2021 Time: 1625 Monitor Well Number: MW-7D (84-91)

Apex Personnel: NF Purpose of Sampling Event: _____

Location (Site/Facility Name): CPC Huntsville CPC 20126 Weather/Temp: Sunny ~40°

Circle:

Measuring Point (MP): (top of casing) top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: (PVC) Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: 1gpm mL/min

Well Cover Bolted: (Yes) No

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: (Yes) No

Well Info. On Tag: (Yes) No

Well Diameter (inches) 4"

Well Type: surface completion, (above grade)

Well Screen Length (feet): 5, 10, 15, 20, Other: NA

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon), Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
Initial				14.83	0.271	6.45	14	3.57	554	
1625				14.54	0.270	6.49	15	2.66	582	
1635				14.40	0.273	6.47	16	2.25	594	
1640				14.85	0.270	6.46	13	2.12	558	
1645				14.62	0.269	6.49	16	2.52	514	
1650				14.40	0.265	6.49	20	2.31	458	
1655				15.08	0.258	6.40	28	1.98	414	
1700				14.87	0.254	6.39	24	1.84	363	
~~1709~~				14.72	0.271	6.64	-99	1.30	~~338~~ 85.2	Dry
813				14.79	0.272	6.75	-95	1.27	870	
816				14.54	0.275	6.81	-90	1.22	87.8	→ sample
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Could not get wlm past outer / inner casing interface

← 1/11/2021

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, (Horiba U-52,) Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-7D (84-91)'	VOCs 6200B	VOA	HCL	Pace	~~1-11-21~~	0820
8 Samples	MADEP VPH				1-11-21	
	Lead	Plastic	None			

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-11-21 Time: 1155

Apex Personnel: NF

Location (Site/Facility Name): CPC 20126

Monitor Well Number: MW-25D (115-122)

Purpose of Sampling Event:

Weather/Temp: Cloudy ~ 41

Circle:

Measuring Point (MP): (top of casing) top of ground

Depth to Product (MP):

Depth to Water (MP):

Total Depth of Well (MP): (0.1')

Water Column thickness (ft):

Well Material: (PVC) Stainless Steel, Other:

Well pad condition: Good Cracked Replace

Low Flow purge rate: 1 gpm mL/min

Well Cover Bolted: Yes (No)

Well Cap Condition: Good Replaced

Well Cap Locked: Yes (No) Replaced

Well Tag Present: (Yes) No

Well Info. On Tag: (Yes) No

Well Diameter (inches) 4"

Well Type: surface completion, (above grade)

Well Screen Length (feet): 5, 10, 15, 20, Other:

Pump Intake depth (Feet above TD):

Purging/Sampling Device: Bailer, Peristaltic, ~~Monsoon,~~ (Grundfos);

OTHER:

Noticeable Odor:

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
Initial				14.23	0.351	7.29	-18	5.47	162	
1200				14.40	0.351	7.35	-32	3.10	172	
1205				14.18	0.350	7.40	-51	1.54	51.7	
1210				14.06	0.350	7.43	-50	1.24	49.1	
1215				14.28	0.350	7.44	-47	1.15	49.6	
1220				14.23	0.349	7.44	-41	1.09	48.7	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other:

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-25D (115-122) 8 samples	VOCs 6200 B MADEP VPH Lead	VOA Plastic	HCL HNO_3	Pace	1-11-21	1225

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Dup 1

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-11-2021 Time: 1400 Monitor Well Number: MW-25D (108-115)

Apex Personnel: N Purpose of Sampling Event: _____

Location (Site/Facility Name): CPC 20126 Weather/Temp: Cloudy ~41

Circle:

Measuring Point (MP): ~~top of casing~~ top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: (PVC) Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: 1gpm mL/min

Well Cover Bolted: Yes No

Well Cap Condition: (Good) Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: (Yes) No

Well Info. On Tag: (Yes) No

Well Diameter (inches) 4"

Well Type: surface completion, (above grade)

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon) Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: (°C) °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
Initial				14.42	0.358	7.36	-111	10.72	130	
1405				14.48	0.357	7.43	-128	9.94	92.4	
1410				13.68	0.357	7.48	-130	9.06	99.7	
1415				13.99	0.356	7.47	-130	8.87	98.9	
1420				14.35	0.355	7.46	-133	8.80	105.2	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

← Take sample due to rising turbidity

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, (Horiba U-52) Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-25D (108-115) 8 samples	VOCs 6200B MADEP VPH Lead	VOA Plastic	HCL HNO_3	Pace	1-11-2021	1425

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-11-21 Time: 1445 Monitor Well Number: MW-25 (83-90)

Apex Personnel: NF Purpose of Sampling Event: _____

Location (Site/Facility Name): OPC 20126 Weather/Temp: cloudy 83°

Circle:

Measuring Point (MP): ~~top of casing~~ ~~top~~ of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: ~~PVC~~, Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: 1gpm mL/min

Well Cover Bolted: Yes No

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: Yes No

Well Info. On Tag: Yes No

Well Diameter (inches) 4"

Well Type: ~~surface completion~~ above grade

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, Monsoon Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
Initial				16.02	0.341	7.51	-161	6.39	212	
1450				15.96	0.341	7.58	-172	5.12	238	
1455				15.75	0.341	7.61	-178	4.49	235	
1500				16.22	0.341	7.64	-184	3.42	234	
~~1505~~										Dry
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Sample on recharge

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, ~~Horiba U-52~~, Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-25 (83-90) 8 samples	VOCs 6200B MADEP VPH Lead	VOA Plastic	HCL	Pace	1-11-21	1530

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-12-2021 Time: 1105 Monitor Well Number: MW-57D (94-101)

Apex Personnel: NF, CF Purpose of Sampling Event: _____

Location (Site/Facility Name): CPC 20126 Weather/Temp: Sunny ~55

Circle:

Measuring Point (MP): ~~top of casing~~ top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: PVC, Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: ~ 1gpm mL/min

Well Cover Bolted: Yes (No)

Well Cap Condition: (Good) Replaced

Well Cap Locked: Yes (No) Replaced

Well Tag Present: (Yes) No

Well Info. On Tag: (Yes) No

Well Diameter (inches) 4"

Well Type: surface completion, ~~above grade~~

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon) Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: (°C) °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
Initial				14.88	0.328	9.21	-31	1.29	1000+	
1110				14.86	0.306	9.01	-16	0.78	1000+	
1115				14.70	0.314	9.16	-14	0.62	1000+	
1120				14.35	0.317	9.19	-24	0.60	1000+	
1125				14.79	0.312	9.13	-28	0.59	1000+	
1130				14.41	0.310	9.09	-30	0.59	1000+	
1135				15.10	0.310	8.98	-24	0.60	943	
1140				15.06	0.296	8.90	-21	0.60	856	
1145				15.14	0.288	8.72	-16	0.66	810	
1150				15.18	0.290	8.80	-19	0.70	800	
1155				15.41	0.285	8.68	-14	0.75	820	
1200				15.11	0.281	8.55	-3	0.78	880	
1205				15.54	0.278	8.43	5	0.89	991	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

← Sample due to rising turb.

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, (Horiba U-52,) Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-57D (94-101) 8 samples	VOCs 6200B MADEP VPH Lead	VOA Plastic	HCL HNO3,	Pace	1-12-21	1210

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APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-6-21 Time: 1345 Monitor Well Number: MW-59D (150-160)

Apex Personnel: NF Purpose of Sampling Event: _____

Location (Site/Facility Name): Dun Weather/Temp: _____

Circle:

Measuring Point (MP): (top of casing) top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): 160 (0.1')

Water Column thickness (ft): _____

Well Material: PVC, ~~Stainless Steel~~, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: ~ 1 mL/min

Well Cover Bolted: Yes (No)

Well Cap Condition: Good Replaced

Well Cap Locked: Yes (No) Replaced

Well Tag Present: (Yes) No

Well Info. On Tag: (Yes) No

Well Diameter (inches) 6"

Well Type: surface completion, (above grade)

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon), Grundfos;

OTHER: _____

Noticeable Odor: -

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: (mS/cm) µS/cm	SU	mV	mg/L	NTU	
Initial				15.34	0.293	7.84	-28	13.50	156	
1348				15.40	0.293	7.92	-25	12.95	90.1	
1351				15.42	0.292	7.98	-22	12.12	68.5	
1354				15.41	0.292	8.03	-25	11.24	70.2	
1357				15.44	0.292	8.07	-31	10.50	66.4	
1400				15.36	0.292	8.09	-37	9.80	58.8	
1403				15.41	0.292	8.10	-41	9.38	54.9	
1406				15.38	0.292	8.11	-55	8.66	50.1	
1409				15.35	0.292	8.12	-66	8.10	51.0	
1412				15.39	0.292	8.13	-82	7.60	45.6	
1415				15.37	0.292	8.13	-91	7.44	45.4	
1418				15.38	0.292	8.14	-101	6.83	42.3	
1421				15.39	0.292	8.14	-109	6.47	43.8	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna (turbidity) Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-59D (150-160) 8 samples	VOCs 6200B	HCl	VOA	Pace	1-6-21	1450
	MADEP VPH	HNO_3	Plastic			
	Lead					

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-6-21 Time: 1421 Monitor Well Number: MW-59D

Apex Personnel: NP Purpose of Sampling Event:

Location (Site/Facility Name): EPC 20126 Weather/Temp:

Circle:

Measuring Point (MP): top of casing top of ground

Depth to Product (MP):

Depth to Water (MP):

Total Depth of Well (MP): (0.1')

Water Column thickness (ft):

Well Material: PVC, Stainless Steel, Other:

Well pad condition: Good Cracked Replace

Low Flow purge rate: mL/min

Well Cover Bolted: Yes No

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: Yes No

Well Info. On Tag: Yes No

Well Diameter (inches)

Well Type: surface completion, above grade

Well Screen Length (feet): 5, 10, 15, 20, Other:

Pump Intake depth (Feet above TD):

Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;

OTHER:

Noticeable Odor:

Sample Color:

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU		
1424 ~~Initial~~				15.37	0.291	8.14	-117	~~15~~ 6.68	40.4		
1427 ~~Test~~				15.34	0.291	8.14	-124	5.74	40.8		
1430				15.26	0.292	8.14	-129	5.42	40.9		
1433				15.30	0.291	8.13	-126	5.11	40.1		
1436				15.19	0.291	8.13	-130	4.89	40.7		
1439				15.29	0.291	8.13	-132	4.81	40.8		
1442				15.13	0.291	8.13	-139	4.72	40.1		
1445				15.02	0.291	8.13	-140	4.64	41.0		
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other:

Parameters Stabilized (circle): YES NO If no, why?

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-5-2021 Time: 1538 Monitor Well Number: ~~[redacted]~~ MW-36D (96.5-103.5)

Apex Personnel: NF Purpose of Sampling Event: _____

Location (Site/Facility Name): ~~Former Cogsdill Tool Facility~~ CPC 20126 Weather/Temp: Partly Cloudy

Circle:

Measuring Point (MP): top of casing top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): 150 (0.1')

Water Column thickness (ft): _____

Well Material: PVC, Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: ~1gpm mL/min

Well Cover Bolted: Yes No

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: Yes No

Well Info. On Tag: Yes No

Well Diameter (inches) 4"

Well Type: surface completion, above grade

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): 100 ft

Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: _____

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
Initial				15.48	0.518	9.40	32	10.82	+1000	
1543				15.49	0.516	9.43	-11	8.34	+1000	
1546				15.50	0.512	9.44	-20	7.55	+1000	
1549				15.49	0.489	9.40	-35	7.37	+1000	
1552				15.38	0.473	9.40	-62	7.09	+1000	
1555				15.27	0.455	9.38	-84	6.92	+1000	Dry
1604				15.35	0.443	9.02	-10	2.47	+1000	
1607				15.74	0.402	8.96	-75	0.86	+1000	
1610				15.65	0.377	8.90	-117	0.67	+1000	
1613				15.97	0.376	8.87	-168	1.02	+1000	
1616				16.15	0.367	8.82	-160	0.59	+1000	
1619				16.00	0.304	8.38	-127	0.49	+1000	
1622				16.02	0.294	8.15	-87	0.48	+1000	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected

Name: _____ _____

Analysis

VOCs (8260 Full) ☐
Cr, Fe, Mn (unfiltered) ☐
Cr, Fe, Mn (filtered) ☐
Hexavalent Cr (unfiltered) ☐
Hexavalent Cr (filtered) ☐
Other _____ ☐

Bottle Type

VOA ☐
Poly ☐
Other ☐ _____
Other ☐ _____

Preservative

HCl ☐
None ☐
Other ☐ _____
Other ☐ _____

Lab	Sample date	Sample Time
	1-5-2021	1700

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: _____ Time: _____ Monitor Well Number: MW-36D (96.5-103.5)

Apex Personnel: _____ Purpose of Sampling Event: _____

Location (Site/Facility Name): _____ Weather/Temp: _____

Circle:

Measuring Point (MP): top of casing top of ground

Depth to Product (MP): _____

Depth to Water (MP): 24.30

Total Depth of Well (MP): 150 (0.1')

Water Column thickness (ft): _____

Well Material: PVC, Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: _____ mL/min

Well Cover Bolted: Yes No

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: Yes No

Well Info. On Tag: Yes No

Well Diameter (inches) _____

Well Type: surface completion, above grade

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, Monsoon, Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: _____

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU		
1625 Initial				16.02	0.298	8.09	-54	0.51	+1000		
1628				16.07	0.291	7.70	3	0.64	+1000		
1631				16.13	0.292	7.54	24	0.74	+1000		
1634				16.04	0.305	8.06	5	0.80	+1000		
1637				16.06	0.324	8.52	-14	0.81	+1000		
1640				16.18	0.392	8.95	-21	1.42	+1000		
1645				16.09	0.325	8.91	4	5.42	+1000		
1650				16.09	0.310	8.79	13	5.76	+1000		
1655				16.09	0.303	8.68	26	5.45	+1000		
1700				16.21	0.298	8.58	30	4.70	+1000		
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Change to 5 min intervals →

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
MW-36D 8 samples	VOCs 62008 MADEP VPH Lead	VOA Plastic	HCL HNO_3	Pace	1-5-2021	1700 DUP2

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-4-21 Time: [illegible] 1510 Monitor Well Number: ~~SAMPLE~~ MW-61D

Apex Personnel: NF, KZ Purpose of Sampling Event: ______

Location (Site/Facility Name): ~~Former Capco Vulcan Facility~~ CPC 20126 [illegible] Weather/Temp: Sunny ~57

Circle:

Measuring Point (MP): ~~top of casing~~ (circled) top of ground

Depth to Product (MP): ______

Depth to Water (MP): 53.83

Total Depth of Well (MP): 103.5 (0.1')

Water Column thickness (ft): ______

Well Material: PVC, Stainless Steel, (circled) Other: ______

Well pad condition: Good Cracked Replace

Low Flow purge rate: 1 gpm ~~mL/min~~

Well Cover Bolted: Yes No (circled)

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No (circled) Replaced

Well Tag Present: Yes (circled) No

Well Info. On Tag: Yes (circled) No

Well Diameter (inches) 4"

Well Type: surface completion, above grade (circled)

Well Screen Length (feet): 5, 10, 15, 20, Other: ______

Pump Intake depth (Feet above TD): ______

Purging/Sampling Device: Bailer, Peristaltic, Monsoon, (circled) Grundfos;

OTHER: ______

Noticeable Odor: –

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments	Field Comments/Site Conditions, etc.:
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU		
Initial				15.96	6.289	5.98	99	5.82	145		
1513				17.25	0.264	6.36	135	5.25	88.3		
1516				17.28	0.240	6.31	147	5.26	32.9		
1519				17.27	0.235	6.27	146	5.41	25.9		
1522				17.27	0.232	6.28	147	5.51	21.8		
1525				17.23	0.228	6.26	148	5.62	21.6		
1528				17.23	0.224	6.24	153	5.74	12.9		
1531				17.24	0.223	6.24	153	5.80	12.5		
1534				17.05	0.223	6.25	150	5.68	24.2		
1537				17.21	0.226	6.26	138	5.50	28.8		
1540				17.21	0.224	6.26	142	5.55	23.6		
1543				17.25	0.224	6.25	140	5.52	23.7		
1546				17.24	0.223	6.26	140	5.55	23.0		
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%		

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, Horiba U-52, (circled) Hanna turbidity; Other: ______

Parameters Stabilized (circle): YES NO If no, why? ______

Samples collected	Analysis		Bottle Type	Preservative	Lab	Sample date	Sample Time
Name: MW-61D	VOCs (8260 Full) [X]	Hexavalent Cr (unfiltered) [ ]	VOA [X]	HCl [X]	Pace	1-4-21	~~[illegible]~~ 1605
8 Samples	Cr, Fe, Mn (unfiltered) [ ]	Hexavalent Cr (filtered) [ ]	Poly [ ]	None [ ]			
	Cr, Fe, Mn (filtered) [ ]	Other ______	Other [ ]	Other [ ]			
	Lead X		Other [X] Plastic	Other [ ]			
	MADEP VPH X						

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-4-21 Time: _____ Monitor Well Number: [redacted] MW-61D

Apex Personnel: NF, KZ Purpose of Sampling Event: _____

Location (Site/Facility Name): [redacted] CPC 20126 2020-CI-2448 Incident Weather/Temp: Sunny ~62

Circle:

Measuring Point (MP): top of casing top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: PVC, Stainless Steel, Other: _____

Well pad condition: Good Cracked Replace

Low Flow purge rate: _____ mL/min

Well Cover Bolted: Yes No

Well Cap Condition: Good Replaced

Well Cap Locked: Yes No Replaced

Well Tag Present: Yes No

Well Info. On Tag: Yes No

Well Diameter (inches) _____

Well Type: surface completion, (above grade)

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, (Peristaltic,) Monsoon, Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: clear

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
[redacted] 1549				17.22	0.222	6.27	138	5.58	20.2	
1552				17.19	0.221	6.25	140	5.60	17.7	
1555				17.19	0.221	6.25	140	5.60	18.7	
1558				17.22	0.220	6.25	141	5.62	18.7	
1601				17.22	0.220	6.24	141	5.61	18.6	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, (Horiba U-52,) Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected

Name: _____

MW-61D

8 samples

Analysis

VOCs (8260 Full) [X]

Cr, Fe, Mn (unfiltered) [ ]

Cr, Fe, Mn (filtered) [ ]

Lead [X]

MADEP VPHX

Hexavalent Cr (unfiltered) [ ]

Hexavalent Cr (filtered) [ ]

Other _____ [ ]

Bottle Type

VOA [X]

Poly [ ]

Other [ ]

Other [X] Plastic

Preservative

HCl [X]

None [ ]

Other [ ]

Other [X]

Lab	Sample date	Sample Time
Pace	1-4-21	16

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-12-21 Time: 1005 Monitor Well Number: Walker (48-55)

Apex Personnel: NF Purpose of Sampling Event: _____

Location (Site/Facility Name): CPC 20126 Weather/Temp: sunny ~42

Circle:

Measuring Point (MP): ~~top of casing~~ top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: PVC, ~~Stainless Steel~~ Other: _____

Well pad condition: ~~Good~~ Cracked Replace

Low Flow purge rate: 1gpm mL/min

Well Cover Bolted: Yes (No)

Well Cap Condition: (Good) Replaced

Well Cap Locked: Yes (No) Replaced

Well Tag Present: Yes (No)

Well Info. On Tag: Yes (No)

Well Diameter (inches) _____

Well Type: surface completion, above grade

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, ~~Monsoon~~, Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: _____

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C ~~°F~~	Circle: ~~mS/cm~~ µS/cm	SU	mV	mg/L	NTU	
Initial				15.69	0.663	6.84	862	4.31	85.7	
1010				15.91	0.632	6.88	865	3.04	81.9	
1015				15.94	0.604	6.87	862	2.64	81.2	
1055				16.25	0.589	6.72	864	5.07	177	→ Well pump needs repair
1100				16.09	0.577	6.75	869	3.64	152	
1105				15.89	0.567	6.78	871	3.36	140	
1110				16.60	0.550	6.69	846	2.56	154	
1135 ~~1135~~				16.89	0.533	6.67	802	3.52	157	→ Pump seizing up
1140 ~~1140~~				16.79	0.531	6.69	796	3.62	157	
1145				16.82	0.499	6.96	828	4.48	78.1	
1150				16.86	0.468	7.01	845	4.47	55.8	
1155				16.88	0.465	7.01	847	4.53	56.5	
1200				16.81	0.467	6.99	846	4.32	57.8	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

Water quality parameters Collected with: YSI 556, ~~Horiba U-52~~, Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
Walker (48.55)	VOCs 6200B	VOA	HCL	Pace	1-12-21	1205
8 Samples	MADEP VPH	Plastic	HNO3			
	Lead					

APEX

APEX COMPANIES, LLC
GROUND-WATER SAMPLING LOG

Date: 1-13-21 Time: 0844 Monitor Well Number: Walker (101-108)

Apex Personnel: NF Purpose of Sampling Event: _____

Location (Site/Facility Name): Huntersville, NC. 28126 Weather/Temp: Sunny 24F

Circle:

Measuring Point (MP): ~~top of casing~~ top of ground

Depth to Product (MP): _____

Depth to Water (MP): _____

Total Depth of Well (MP): _____ (0.1')

Water Column thickness (ft): _____

Well Material: PVC, ~~Stainless Steel~~, Other: _____

Well pad condition: (Good) Cracked Replace

Low Flow purge rate: 1 lpm mL/min

Well Cover Bolted: Yes (No)

Well Cap Condition: (Good) Replaced

Well Cap Locked: Yes (No) Replaced

Well Tag Present: Yes (No)

Well Info. On Tag: Yes (No)

Well Diameter (inches) _____

Well Type: surface completion, above grade

Well Screen Length (feet): 5, 10, 15, 20, Other: _____

Pump Intake depth (Feet above TD): _____

Purging/Sampling Device: Bailer, Peristaltic, (Monsoon) Grundfos;

OTHER: _____

Noticeable Odor: _____

Sample Color: _____

Time	Depth to Water (MP)	Well volume Bailed	Low Flow Vol Purged	Temp.	Spec. Cond.	pH	ORP	DO	Turbidity	Water Quality Comments
min.	Feet	Gallons	Liters	Circle: °C °F	Circle: mS/cm µS/cm	SU	mV	mg/L	NTU	
Initial				15.57	1.42	7.15	845	5.60	295	
0850				14.19	1.40	7.19	852	9.28	599	
0855				14.09	1.40	7.15	857	10.42	543	
0900				14.83	1.39	7.13	859	8.69	534	
0905				14.95	1.39	7.11	861	9.03	661	
0910				14.55	1.38	7.07	864	9.12	639	
0915				14.10	1.38	7.05	868	9.22	590	
0920				14.05	1.38	7.07	870	9.16	523	
0925				14.03	1.38	7.10	871	9.07	524	
0930				14.01	1.38	7.08	873	9.15	514	
Criteria	0.33'		0.2-0.5 L/min	+/- 1.0	+/- 3%	+/- 0.1	+/- 10 mV	+/- 0.3mg/L	+/- 10%	

Field Comments/Site Conditions, etc.:

Purge Volume Conversions: 1" = 0.04, 1.5" = 0.09, 2" = 0.17, 3" = 0.38, 4" = 0.66, 6" = 1.5, 8" = 2.6, 10" = 4.1

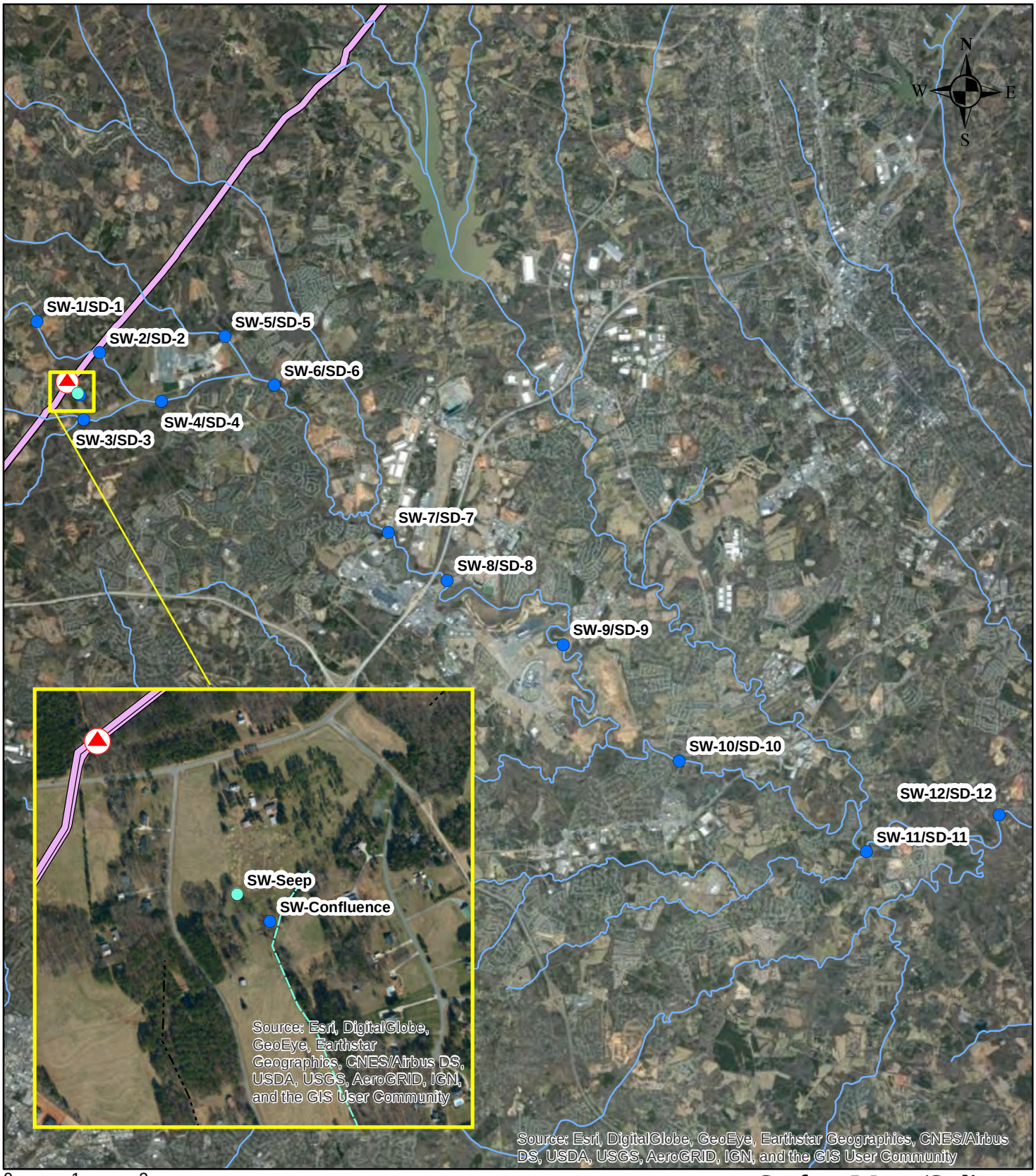
Water quality parameters Collected with: YSI 556, Horiba U-52, Hanna turbidity; Other: _____

Parameters Stabilized (circle): YES NO If no, why? _____

Samples collected	Analysis	Bottle Type	Preservative	Lab	Sample date	Sample Time
Walker (101-108) 9 samples	VOCs 6200B MADEP VPH Lead	VOA Plastic	HCL HNO3	Pace	1-12-21	0935

APPENDIX F

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
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	
SW-2	**North Prong Clark Creek (Downgradient of leak site)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	

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
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	
SW-4	**Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	

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
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	
SW-6	**Clarke Creek (Downgradient of Ramah Creek confluence)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	

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
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	
SW-8	**Rocky River (Downgradient of Clarke River confluence)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
SW-9	**Rocky River (Downgradient of Clarke River confluence)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
SW-10	**Rocky River (Downgradient of Clarke River confluence)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
SW-11	**Rocky River (Downgradient of Mallard Creek)**	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
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
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	
SW-Confluence	**Downgradient of Site**	9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		10/31/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
		11/13/2020	<80	<1	<1	<1	<2	<1	<1	x
		11/19/2020	<80	<1	<1	<1	<2	<1	<1	
		12/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/17/2020	<80	<1	<1	<1	<2	<1	<1	x
		12/30/2020	<80	<1	<1	<1	<2	<1	<1	
		1/14/2021	<80	<1	<1	<1	<2	<1	<1	

	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
		12/30/2020	7.00	6.69	95.9	0.138	81.2	22.9	
		1/14/2021	10.10	7.18	153.2	0.153	16.32	13.1	
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
		12/30/2020	6.80	6.74	113.5	0.155	11.21	17	
		1/14/2021	9.50	7.45	153.5	0.161	13.81	13.8	

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
		12/30/2020	6.90	6.92	52.1	0.176	10.69	14.8	
		1/14/2021	10.00	7.34	144.1	0.18	12.69	12.9	
SW-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/15/2020	25.06	7.7	108	0.124	8.00	168	
		8/16/2020	22.85	7.62	96	0.099	7.32	299	
		8/17/2020	23.03	7.55	87	0.127	8.00	125	
		8/18/2020	20.96	7.60	106	0.129	7.07	96.7	
		8/19/2020	23.79	7.63	145	0.147	6.66	29.3	
		8/20/2020	22.41	7.77	90	0.155	4.98	22.5	
		8/21/2020	21.74	7.69	114	0.163	6.17	40.2	
		8/22/2020	22.20	7.9	102	0.14	7.59	42	
		8/27/2020	25.56	7.71	187	0.172	6.01	7.6	
		9/1/2020	25.61	7.43	138	0.116	5.73	58	x
		9/2/2020	27.75	6.75	187	0.078	4.97	278	x
		9/3/2020	25.69	6.86	165	0.103	4.16	131	x
		9/10/2020	24.07	7.44	173	0.153	6.45	23.9	
		9/17/2020	21.04	7.2	183	0.127	5.82	886	
		9/19/2020	20.06	7.23	156	0.103	7.04	71.7	x
		9/24/2020	17.01	6.51	174	0.108	8.9	0	
		9/26/2020	18.63	6.12	187	0.067	9.09	215	x
		10/1/2020	16.78	6.64	180	0.116	7.32	41	
		10/7/2020	21.92	7.01	195	0.203	4.92	0	
		10/12/2020	21.05	6.28	269	0.067	6.08	432	x
		10/22/2020	16.12	6.16	240	0.13	8.86	69.2	
		10/31/2020	12.21	7.35	184	0.098	4.04	168	
		11/5/2020	18.22	6.82	170	0.085	7	54.1	
		11/13/2020	17.44	6.57	245	0.028	9.01	442	x
		11/19/2020	8.61	6.08	191	0.106	7.61	113	
		12/1/2020	11.00	6.97	167.9	0.182	8.32	68	x
		12/17/2020	9.20	6.88	262.4	0.127	14.08	55.3	x
		12/30/2020	6.90	7.01	115.5	0.167	11.01	16.1	
		1/14/2021	10.00	7.55	151.1	0.174	11.48	14.04	

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
		12/30/2020	6.90	7.08	80.9	0.143	12.34	14.9	
		1/14/2021	10.60	7.42	126.2	0.144	13.11	13.9	
SW-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/15/2020	25.97	7.56	109	0.131	6.50	20.7	
		8/16/2020	24.06	7.13	125	0.107	4.42	122	
		8/17/2020	24.06	7.64	124	0.139	7.38	71.3	
		8/18/2020	21.92	7.49	110	0.136	7.03	52.4	
		8/19/2020	23.21	7.56	127	0.142	7.7	23	
		8/20/2020	22.42	7.79	126	0.151	6.38	17	
		8/21/2020	22.09	7.56	131	0.14	5.55	15.7	
		8/22/2020	22.52	7.69	113	0.138	6.03	28	
		8/27/2020	25.02	7.64	228	0.17	5.32	3.8	
		9/1/2020	26.00	7.19	156	0.151	5.08	103	x
		9/2/2020	27.23	6.34	224	0.058	2.51	389	x
		9/3/2020	25.38	6.57	202	0.057	4.38	135	x
		9/10/2020	24.48	7.02	211	0.16	4.93	18.7	
		9/17/2020	21.66	6.76	225	0.133	5.51	39	
		9/19/2020	21.06	6.82	279	0.111	5.53	57.5	x
		9/24/2020	17.19	6.67	195	0.108	10	21.4	
		9/26/2020	19.04	6.22	207	0.052	9.75	102	x
		10/1/2020	17.17	6.84	179	0.119	7.72	19.5	
		10/7/2020	22.00	7.1	186	0.207	6.05	0.5	
		10/12/2020	20.95	5.72	291	0.046	1.35	515	x
		10/22/2020	15.92	6.48	245	0.136	2.87	20.9	
		10/31/2020	13.23	6.72	256	0.108	3.45	209	
		11/5/2020	15.77	6.54	208	0.069	8.21	116	
		11/13/2020	18.17	6.3	259	0.02	7.7	410	x
		11/19/2020	7.62	6.09	204	0.11	8.15	106	
		12/1/2020	10.00	6.48	204.6	0.135	5.65	46	x
		12/17/2020	7.60	6.04	288	0.189	15	57.1	x
		12/30/2020	6.20	6.8	36	0.185	10.04	21.7	
		1/14/2021	9.90	7.2	110.6	0.174	12.44	16.9	

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Table 2. Surface Water General Parameter Measurements
2020-L1-SR2448 Incident

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)	Rain Event
SW-7	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.81	7.56	132	0.175	6.65	45.5	
		8/16/2020	23.98	7.33	127	0.103	6.02	254	
		8/17/2020	25.00	7.76	101	0.122	6.89	102	
		8/18/2020	22.22	7.54	114	0.16	7.15	71.7	
		8/19/2020	22.89	7.63	118	0.181	6.39	41.5	
		8/20/2020	22.67	7.75	145	0.179	6.02	33.5	
		8/21/2020	22.54	7.57	141	0.191	6.08	49	
		8/22/2020	22.66	7.65	124	0.161	6.11	52.9	
		8/27/2020	25.42	7.88	247	0.24	5.61	25	
		9/1/2020	25.66	7.00	183	0.106	4.72	197	x
		9/2/2020	31.26	4.96	338	2.28	6.15	163	x
		9/3/2020	26.12	5.81	312	0.134	3.51	108	x
		9/10/2020	24.39	6.19	303	0.216	6.02	26.6	
		9/17/2020	21.81	5.93	287	0.21	6.37	138	
		9/19/2020	21.22	6.65	335	0.127	6.16	43.2	x
		9/24/2020	17.50	6.06	194	0.161	5.4	10	
		9/26/2020	18.85	5.67	200	0.088	10.57	189	x
		10/1/2020	16.43	6.08	217	0.133	6.35	57.9	
		10/7/2020	23.92	6.96	207	0.242	5.45	6.8	
		10/12/2020	20.01	5.03	309	0.134	2.07	410	x
		10/22/2020	17.12	6.06	265	0.174	3.81	22.5	
		10/31/2020	13.82	6.15	256	0.124	0.44	167	
		11/5/2020	18.47	5.99	209	0.136	6.17	64.1	
		11/13/2020	18.16	6.03	263	0.037	2.5	357	x
		11/19/2020	8.09	5.78	271	0.145	3.81	105	
		12/1/2020	11.60	6.5	234.2	0.018	10.51	70.3	x
		12/17/2020	10.60	3.96	202.9	0.01	12.56	64.7	x
		12/30/2020	6.70	7.02	86.5	0.192	10.4	18.3	
		1/14/2021	10.00	7.47	116	0.202	14.41	18.3	
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
		12/30/2020	7.80	5.95	228.2	0.149	9.87	11.25	
		1/14/2021	8.40	6.64	164	0.164	11.45	9.2	
SW-Confluence	Downgradient of Spill Location	9/1/2020	23.88	6.46	59	0.225	2.75	618	x
		9/2/2020	28.91	7.69	177	0.13	6.51	156	x
		9/3/2020	28.58	7.16	148	0.249	7.1	245	x
		9/10/2020	23.89	6.46	19	0.279	1.27	159	
		9/17/2020	22.36	7.45	176	0.123	6.45	59.2	
		9/19/2020	20.62	7.58	131	0.116	4.93	86.7	x
		9/24/2020	18.59	6.13	188	0.165	10.93	234	
		9/26/2020	20.36	6.86	151	0.086	2.3	2.03	x
		10/1/2020	18.98	6.55	88	0.14	1.89	358	
		10/7/2020	21.56	6.36	143	0.279	5	29.2	
		10/12/2020	23.52	6.26	218	0.114	8.4	262	x
		10/22/2020	20.08	6.59	161	0.242	9.1	704	
		10/31/2020	12.46	7.37	162	0.109	4.72	245	
		11/5/2020	17.09	6.41	156	0.084	4.99	202	
		11/13/2020	18.39	6.33	234	0.052	8.29	991	x
		11/19/2020	11.00	6.86	96	0.175	9.43	541	
		12/1/2020	10.60	6.44	61.7	0.165	9.91	26.8	x
		12/17/2020	9.10	6.6	128.6	0.146	10.07	16.5	x
		12/30/2020	5.80	6.05	130.7	0.164	10	9.5	
		1/14/2021	9.70	6.42	219.4	0.11	11.25	11.85	

Note:
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Red Text: malfunctioning equipment or misrecorded value
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APPENDIX G

PUBLIC NOTICE LETTERS

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

January 20, 2021

Mecklenburg County Public Health Director
Ms. Gibbie Harris
249 Billingsley Road
Charlotte, North Carolina 28211

Re: **Notice Concerning Non-UST Release**
Colonial Pipeline Company
Colonial Pipeline Right-of-Way
14511 Huntersville-Concord Road
Huntersville, Mecklenburg County, North Carolina
NCDEQ Incident Number 95827

Dear Ms. Harris:

This letter is to inform you of a release of petroleum to groundwater in Huntersville, Mecklenburg County, North Carolina. In accordance with the North Carolina General Statutes, a set of Groundwater Classifications and Standards has been put in place for the protection of groundwater across the State. Because the releases occurred within your jurisdiction, the law requires that you be informed of the release and any proposed remedial activities.

Pursuant to the notification requirements of Title 15A NCAC 2L.0114(a), Apex Companies, LLC (dba Apex Engineering P.C.), on behalf of Colonial Pipeline Company, is providing notice of a release of petroleum fuel related compounds which occurred within the Colonial Pipeline Company right of way located at 14511 Huntersville Concord Road in Huntersville, North Carolina. The extent of the release in groundwater is defined, and monitoring and corrective actions are underway. Groundwater and surface water monitoring will be performed at the site at the interval prescribed by North Carolina Department of Environmental Quality to monitor and assess contaminant migration. Some of the constituents found in the groundwater beneath the site have been detected at concentrations that exceed the Groundwater Quality Standards outlined in 15A NCAC 2L.0202.

A Copy of the Comprehensive Site Assessment Report is attached for your review. You may contact me with any questions at (704) 799-6390. In accordance with state law, notification of this release is also being made to the City of Charlotte Manager.

Sincerely,
Apex Companies, LLC

Andrew Street, CHMM, RSM
Senior Project Manager

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

January 20, 2021

Town Manager
Mr. Anthony Roberts
P.O. Box 664
Huntersville, North Carolina 28070

Re: **Notice Concerning Non-UST Release**
Colonial Pipeline Company
Colonial Pipeline Right-of-Way
14511 Huntersville-Concord Road
Huntersville, Mecklenburg County, North Carolina
NCDEQ Incident Number 95827

Dear Mr. Roberts:

This letter is to inform you of a release of petroleum to groundwater in Huntersville, Mecklenburg County, North Carolina. In accordance with the North Carolina General Statutes, a set of Groundwater Classifications and Standards has been put in place for the protection of groundwater across the State. Because the releases occurred within your jurisdiction, the law requires that you be informed of the release and any proposed remedial activities.

Pursuant to the notification requirements of Title 15A NCAC 2L.0114(a), Apex Companies, LLC (dba Apex Engineering P.C.), on behalf of Colonial Pipeline Company, is providing notice of a release of petroleum fuel related compounds which occurred within the Colonial Pipeline Company right of way located at 14511 Huntersville Concord Road in Huntersville, North Carolina. The extent of the release in groundwater is defined, and monitoring and corrective actions are underway. Groundwater and surface water monitoring will be performed at the site at the interval prescribed by North Carolina Department of Environmental Quality to monitor and assess contaminant migration. Some of the constituents found in the groundwater beneath the site have been detected at concentrations that exceed the Groundwater Quality Standards outlined in 15A NCAC 2L.0202.

A Copy of the Comprehensive Site Assessment Report is attached for your review. You may contact me with any questions at (704) 799-6390. In accordance with state law, notification of this release is also being made to the Public Health Director of Mecklenburg County.

Sincerely,
Apex Companies, LLC

Andrew Street, CHMM, RSM
Senior Project Manager