VIA OVERNIGHT MAIL

September 22, 2022

Ms. Richelle Hanson, Project Manager
Voluntary Cleanup Program
Maryland Department of the Environment
1800 Washington Boulevard, Suite 625
Baltimore, Maryland 21230-1719

Subject: **2021 Offsite Groundwater Monitoring Report**
Former Kop-Flex Facility Site, Hanover, Anne Arundel County
Brownfield Master Inventory Site MD0286

Dear Richelle:

On behalf of EMERSUB 16 LLC, WSP USA, Inc. is pleased to submit the enclosed 2021 Offsite Groundwater Monitoring Report for the Former Kop-Flex Facility Site (Site), also designated as Brownfield Master Inventory site MD0286, in Hanover, Maryland. This monitoring report presents the results of the semi-annual groundwater sampling events conducted during the 2021 calendar year, including an evaluation of the distribution and concentration trends for site-related constituents in the deep, impacted portion of the Lower Patapsco aquifer.

For 2022, WSP plans to continue collecting water level and groundwater quality data from the monitoring wells screened in the deep confined zone of the Lower Patapsco aquifer and the underlying Patuxent aquifer.

If you have any questions concerning this report submittal, please do not hesitate to contact us at 703-709-6500, or Steve Clarke of EMERSUB 16 at 314-553-1953 and Steve.Clarke@emerson.com.

Kind regards,

R. Eric Johnson, PhD.
Director, Geological Sciences

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EMERSUB 16 LLC

2021 OFFSITE GROUNDWATER MONITORING REPORT

FORMER KOP-FLEX FACILITY SITE, HANOVER, MARYLAND

SEPTEMBER 22, 2022

wsp

4817-1792-0480.v3

2021 OFFSITE GROUNDWATER MONITORING REPORT

FORMER KOP-FLEX FACILITY SITE, HANOVER, MARYLAND

EMERSUB 16 LLC

PROJECT NO.: 31401545.011
DATE: SEPTEMBER 22, 2022

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1 INTRODUCTION

On behalf of EMERSUB 16 LLC, WSP USA Inc. (WSP) has prepared this Annual Offsite Groundwater Monitoring Report for activities performed in 2021 to assess the water quality conditions with respect to the groundwater plume emanating from the Former Kop-Flex Facility Site (Site) located at 7555 Harmans Road in Hanover, Maryland (Figure 1). The Site is identified as MD0286 under the Brownfield Master Inventory system used by the Maryland Department of the Environment (MDE) Land Restoration Program. This report pertains to the MDE-approved response action activities that are being conducted to address the groundwater impacts in the offsite area of the Site, which includes non-residential (light industrial) facilities bordering the former Kop-Flex facility to the north (Verizon Communications), and south and east (Williams Scotsman, Inc.) along with residential communities to the south of Maryland Route 100.

Previous environmental investigations initiated in 1996 identified soil and groundwater impacts associated with historical releases of chlorinated solvents at the Site. The results of investigations conducted in offsite areas beginning in 2012 also showed that volatile organic compounds (VOCs) and 1,4-dioxane contained in solvents used in industrial operations have migrated to the south and southeast within the deep confined zone of the Lower Patapsco aquifer underlying the former facility. Since that time, an offsite groundwater monitoring plan has been developed in conjunction with the implementation of an onsite hydraulic containment system. The objectives of the ongoing monitoring program are to evaluate the trends in concentrations of site-related constituents of concern (COCs) in the aquifer system downgradient of the former Kop-Flex facility and whether additional actions are warranted to protect the drinking water source used by some residential communities in the area.

This 2021 Offsite Groundwater Monitoring Report consists of the following sections:

- Section 2 – Site Description and Background
- Section 3 – Environmental Setting and Hydrogeology
- Section 4 – Groundwater Monitoring Plan Sampling Procedures
- Section 5 – 2021 Sampling Results
- Section 6 – Summary and Conclusions, including planned 2022 monitoring activities

2 SITE DESCRIPTION

The former Site is located at 7555 Harmans Road in Hanover, Anne Arundel County, Maryland. The Site occupies a total area of approximately 25 acres and contains three buildings - two buildings used as office and warehouse/operations space by the current owner/operator – Catalent Cell and Gene Therapy - and a small groundwater treatment facility operated by WSP in the west-central portion of the property (Figure 1). These buildings were constructed during re-development of the property in 2016. The property is bordered to the north, east and south by light industrial operations and to the west by undeveloped land along Stony Run (a tributary of the Patapsco River), a small residential development and Harmans Road.

The former facility was constructed on previously undeveloped land in 1969 by Koppers Company, Inc., a predecessor in real estate interest of Kop-Flex, Inc. Emerson Electric Co. (Emerson) acquired Kop-Flex in 1996. Kop-Flex manufactured flexible couplings for the mechanical power transmission industry at the site. Manufacturing operations at the facility ceased in late 2012, with all equipment and machining lines subsequently removed from the Site. In December 2014, Emerson transferred the property to its wholly owned subsidiary EMERSUB 16 LLC in preparation for the divestiture of its Power Transmission Solutions business, of which Kop-Flex was a part. Subsequently, EMERSUB 16 sold the property to a third party, TC Harmans Road, LLC, a subsidiary of Trammell Crow Company (Trammel Crow). TC Harmans Road, LLC later reorganized as Harmans Road Associates, LLC, which is also a subsidiary of Trammell Crow. During 2016 and early 2017, the property was repurposed for commercial use. The redevelopment involved the demolition of the Kop-Flex facility buildings and construction of two structures, designated the North Building and South Building, separated by a truck loading dock area. Paragon BioServices, a Baltimore-area biopharmaceutical company, began leasing the property in 2018 and modifying the building interiors for future operations. As of late 2019, Paragon BioServices has moved into the North Building and initiated business operations as a tenant of Harmans Road Associates. Paragon BioServices was acquired by Catalent Pharma Solutions in 2019. Harmans Road Associates was subsequently purchased by Catalent Pharma Solutions in January 2020 and, in December 2021, changed its name to Catalent Harmans Road, LLC (Catalent). At present, Catalent is making modifications to the interior of the South Building for future business operations.

Much of the broader neighborhood in which the Site is located is primarily characterized by residential developments (single-family homes and townhouses) and undeveloped land. A small number of areas, primarily to the north and east, are subject to commercial and light industrial/industrial park uses. The following table summarizes the nearby land uses.

Direction	Operator Name	Address	Property Use
North	Verizon	7545 Harmans Road	Maintenance Facility
South	William Scotsman, beyond which is Maryland State Route 100	7539 Harmans Road	Mobile Trailer Distributor – Trailer Storage
East	William Scotsman, beyond which are railroad tracks	7539 Harmans Road	Mobile Trailer Distributor – Office/Fabrication Building and Trailer Storage
West	Stony Run with surrounding undeveloped land and Harmans Preserve	-----	Open space and residences

3 ENVIRONMENTAL SETTING

3.1 TOPOGRAPHY AND SURFACE DRAINAGE

Anne Arundel County is located within the Atlantic Coastal Plain Physiographic Province. The Hanover area is situated approximately five miles from the Fall Line, which marks the boundary at the ground surface between the unconsolidated deposits of the Coastal Plain and the igneous and metamorphic crystalline rocks of the Piedmont Physiographic Province. Based on the United States Geological Survey (USGS) topographic 7.5-minute series quadrangle map for Relay, Maryland (revised 1974), the site lies within an area of rolling to hilly terrain dissected by numerous perennial to intermittent streams. Overall, the highest elevations (greater than 200 feet above mean sea level [MSL]) occur in the Severn area south and west of the former Kop-Flex facility with the lowest area (approximately 90 feet above MSL) present to the north along Stony Run.

According to the USGS topographic map, the closest stream to the Site is Stony Run, which flows across the northwestern portion of the property. Streamflow associated with the Stony Run drainage system progresses northward and eventually discharges into the Patapsco River. Additionally, numerous small, predominately man-made pond areas have been identified and mapped in the vicinity of Stony Run and its tributaries in the Hanover-Severn area. The largest of these is a hydrologically isolated pond located approximately 0.3 mile south of the site in the Harmans Woods community.

3.2 LOCAL GEOLOGY

Evaluation of the borehole lithologic data within the context of the regional stratigraphic framework indicates the unconsolidated deposits in the Hanover-Severn area include units of the Lower Cretaceous Potomac Group. The most detailed lithologic information is provided by the logging of cores obtained from boreholes drilled by WSP for the onsite and offsite monitoring wells (Figure 2). Construction details for the offsite wells are provided in Table 1. Based on the borehole data, the following discussion provides an overview of the geologic conditions in the onsite and offsite areas.

The youngest deposits at the former facility property are a combination of Quaternary alluvial sediments associated with the depositional processes along the Stony Run drainage system and fill materials associated with historical site activities. Based on the boring logs, the maximum thickness of these deposits in this area is approximately 20 feet (Figure 2).

Lower Cretaceous litho-stratigraphic units underlie the Quaternary-age deposits down to an elevation of greater than -300 feet mean sea level (MSL). The primary Cretaceous-age litho-stratigraphic units and their corresponding hydro-stratigraphic equivalents beneath the former Kop-Flex facility and offsite area, from youngest (shallowest) to oldest (deepest), include the following (Figure 2):

- Patapsco Formation (Upper Patapsco aquifer, Lower Patapsco confining unit and Lower Patapsco aquifer)
- Arundel Clay (Arundel Clay confining unit)
- Patuxent Formation (Patuxent aquifer)

Specific information on the Lower Patapsco and Patuxent aquifers and Arundel Clay confining unit is provided in the following section.

3.3 LOCAL HYDROGEOLOGY

3.3.1 UPPER PATAPSCO AQUIFER

The Upper Patapsco aquifer is the shallowest hydrogeologic unit within the Severn, Maryland area. Based on the hydrogeologic cross-section, the outcrop area[1] for this aquifer extends from the vicinity of Telegraph Road (Maryland Route 170) south and east toward Clark Station Road and WB&A Road. The aquifer is comprised of mostly fine to medium-grained sands, which are interbedded with clay deposits and is underlain by clayey deposits that serve as the confining unit for the Lower Patapsco aquifer.

Given the shallow depth of the Upper Patapsco aquifer in the area, groundwater is presumed to occur under an unconfined condition where the top of the aquifer coincides with the water table. Detailed information on the aquifer depth is limited due to a lack of data from shallow wells installed in the residential areas east of Telegraph Road. Based on the lithologic log for monitoring well MW-34D located a short distance east of Telegraph Road, the Upper Patapsco aquifer in this area occurs to a depth of approximately 45 feet.

Groundwater present in this shallow aquifer is from the infiltration of soil moisture which derived from precipitation over the outcrop area. The upward movement of groundwater from the underlying Lower Patapsco aquifer is not a contributing source of water to this hydrogeologic unit. Thus, any volatile organic constituents detected in the groundwater are associated with conditions in the area along and to the south and east of Telegraph Road. Volatile constituents released at the Former Kop-Flex Facility Site would not be present in the Upper Patapsco aquifer.

3.3.2 LOWER PATAPSCO AQUIFER

The Lower Patapsco aquifer occurs over the entire area of interest, which extends from the Site south and east to the residential communities beyond the portion of Telegraph Road south of Reece Road, and ranges in thickness from approximately 170 feet at the southern boundary of the Site to approximately 320 feet in the residential areas south of Reece Road (Figure 2). Overall, the aquifer in the area consists of a layered sequence of alternating sandy and clayey sediments with the layers dipping to the south and east.[2] The predominately sand units are comprised of fine to coarse-grained sands with discontinuous lenses of fine-grained (silt and clay) sediments. These sandy zones are inter-layered with two, regionally extensive units of predominately dense clay deposits of varying thickness.

A shallow sand layer occurs to depths ranging from 40-60 feet below ground surface (BGS) on and around the Site to 70-75 feet BGS in the Harmans Woods community. (Another shallow sand unit is present over a similar depth interval in the vicinity of Reece Road and to the south in the Andorick Acres community.) In addition to these shallow sand units, a deep sand layer extends over the entire area. The depth to the top of this deep sand unit varies from 80-90 feet BGS on the southern portion of the Site to greater than approximately 200 feet BGS in the Andorick Acres community. The thickness of this unit is approximately 90 feet in the northern portion of the area of interest and 160 feet further south. Fine-grained sediments comprising a regionally extensive clayey layer separates the shallow and deep sand units and serves as a low permeability confining unit for the deep sand zone. This confining unit would act as a low permeability barrier limiting the movement of groundwater and dissolved volatile organic constituents between the shallow and deep sand zones.

[1] An outcrop area comprises an area of land where the unconsolidated sediments comprising a geologic unit occur at or very close to the ground surface.
[2] In geologic terminology, dip refers to the 'tilting' of a bed or series of layered beds from a horizontal orientation. This tilting, or inclination, of the bed(s) typically results in the depth to a given bed increasing in the direction of dip.

At the Site, groundwater in the shallow zone of the Lower Patapsco aquifer occurs under an unconfined condition, although semi-confined conditions may exist in areas where fine-grained clayey deposits are present in the shallow subsurface.[3] Evaluation of the water level data from the shallow onsite and offsite monitoring wells indicates the general direction of groundwater flow, and migration of dissolved constituents present in the water, is to the north and west within the shallow sand zone in the area (Figure 3). The direction of shallow groundwater movement and associated constituent transport generally mimics the overall local surface topography described above, with groundwater providing a source of water (*i.e.*, baseflow) to local streams, and wetland areas and surface water bodies near stream courses.

Groundwater occurs under leaky confined conditions in the deep sand zone of the Lower Patapsco aquifer at the Site.[4] Evaluation of the water level data from monitoring wells screened in this deep sand zone indicates generally south-southeast flow paths for groundwater moving through this portion of the Lower Patapsco aquifer (Figure 2).[5] (Further discussion of the groundwater flow system within the deep confined portion of the Lower Patapsco aquifer is provided in Section 5.2 of this report.) In addition, for the onsite area and offsite Harmans Woods community immediately south of Route 100, the water level elevations in monitoring wells screened in the shallow zone of the Lower Patapsco aquifer are higher than elevations in the deep monitoring wells (Figure 2). This difference in the water levels between the shallow and deep monitoring wells indicates the existence of hydrologic conditions that can result in the downward movement of groundwater, and associated dissolved constituents, from the shallow sand zone to the deep sand zone of the Lower Patapsco aquifer. The downward flow of groundwater would be controlled and limited by low permeability clayey deposits that constitute the confining unit that separates the sand zones. The water level data do not indicate conditions that would result in the upward flow of groundwater and dissolved constituents from the deep sand zone to the overlying shallow zone.

In summary, the Lower Patapsco aquifer at the Site consists of shallow (unconfined) and deep (leaky confined) sand units that serve as conduits for groundwater flow and associated transport of dissolved constituents. Groundwater in the shallow sand zone generally flows from the residential areas south Maryland Route 100 (*e.g*, the Harmans Woods community) to the north and west toward the former Kop-Flex facility and Stony Run, while groundwater in the deep sand zone flows in a south-southeastward direction. Hydrologic conditions cause groundwater and dissolved constituents to move vertically downward from the shallow to deep zones of the aquifer in the area but do not allow for the upward movement of solute-containing water from the deep sand zone to the shallow zone. Under this hydrologic setting, dissolved volatile organic constituents that reached the deep sand zone underlying the former Kop-Flex facility would continue to migrate with water moving to the south-southeast through the sandy deposits.in the deep portion of the Lower Patapsco aquifer. Moreover, as explained below, the presence of a clay aquitard below the deep zone of the Lower Patapsco aquifer prevents volatile organic constituents from migrating to the Patuxent aquifer, which underlies the Lower Patapsco aquifer.

3.3.3 ARUNDEL CLAY

The Arundel Clay underlies the Lower Patapsco aquifer and separates it from the Patuxent Aquifer (Figure 2). This unit consists predominately of hard, dense clay that ranges in color from gray to dark gray and red to very dark brown, with rare thin beds of well-graded sand. Organic (plant) matter is present throughout much of the clayey deposits comprising this litho-stratigraphic unit in the offsite area. Given the southeastward dipping, or tilting, of the geologic units in northern Anne Arundel County, the depth to the top of the Arundel Clay increases in a south and east direction from the former Kop-Flex

[3] A semi-confined aquifer is an aquifer that is partially overlain, or confined, by a layer(s) of low permeability material through which groundwater movement may occur.
[4] A leaky aquifer is an aquifer whose upper and lower boundaries consist of continuous low permeability materials through which groundwater movement may occur.
[5] In this report, when a reference is made to a deep monitoring well, it means that it is either screened in the deep confined portion of the Lower Patapsco aquifer, or in the Patuxent aquifer (described in Section 3.3.3).

property. Depths to the upper boundary of this unit vary from 160 feet BGS at the southern Site boundary to 210 feet BGS at the MW-36 well location in the Harmans Woods community to approximately 370 feet BGS in the central portion of the Andorick Acres community (Figure 2). Based on the lithologic logs for offsite wells that were advanced through the Arundel Clay and into the underlying Patuxent Aquifer, the thickness for this unit ranges from approximately 40 feet to 120 feet over the Hanover-Severn area. The lithologic data indicates the Arundel Clay attains its maximum thickness in the northern portion of the area of interest – Site and Harmans Woods community – and decreases to less than 70 feet further south in the Andorick Acres neighborhood. The low permeability of the predominately clayey deposits indicates the Arundel Clay serves as a regionally extensive confining unit for the underlying Patuxent aquifer within the Coastal Plain aquifer system. Given the thickness and low permeability of the clayey sediments, it is highly unlikely that VOCs present in the Lower Patapsco Aquifer would affect the underlying Patuxent Aquifer.

3.3.4 PATUXENT AQUIFER

The Patuxent aquifer is the deepest aquifer encountered in the Severn area and comprises the porous sand deposits of the Patuxent Formation beneath the Arundel Clay. Detailed information on the lithologic characteristics of this hydro-stratigraphic unit is minimal in the area of interest due to the limited advancement of well boreholes into this aquifer.[6] Using the available borehole data, the depth to the top of the aquifer ranges from approximately 350 feet BGS in the Harmans Woods community (MW-36D location) to approximately 410 feet BGS in the Andorick Acres neighborhood. The aquifer depth is supported by the construction details for the residential well at 1409 Bittersweet Drive in the Andorick Acres community, which is completed at a depth of 465 feet BGS or approximately 50 feet below the aquifer's upper boundary. Based on regional hydrogeologic studies, the Patuxent aquifer is believed to approach a thickness of approximately 250 feet in northwestern Anne Arundel County.

Groundwater flow within the Patuxent aquifer occurs under confined conditions, with the Arundel Clay comprising the confining unit. Evaluation of historical water level data collected from observation wells in northern Anne Arundel County indicated a generally eastward flow of groundwater within the Patuxent aquifer in the Hanover-Severn area. This flow direction, which differs from that determined for the deep sand zone of the overlying Lower Patapsco aquifer, is the result of significant water withdrawals at a public water supply wellfield located along Dorsey Road to the east of the Site. Significant groundwater withdrawals from the Dorsey Road wellfield started in the 1960's and have continued through 2021. Based on water supply studies conducted by the Maryland Geological Survey for the Anne Arundel County Department of Public Works, there have been no major changes to the average pumping from the Patuxent aquifer at this well field. Potentiometric levels determined from depth to water measurements at the two offsite monitoring wells – MW-30D-413 and MW-36D – are consistent with the eastward flow paths ascertained from the previous investigations. The data from these wells further suggests that the Arundel Clay is serving as a competent aquitard, or hydraulic barrier, between the groundwater flow in the Lower Patapsco and Patuxent aquifers. Given the geology and direction of groundwater flow, dissolved constituents (including potentially VOCs) detected in the Patuxent aquifer are most likely derived from source areas to the west of the Severn, Maryland area and not via downward migration from the Lower Patapsco aquifer through the Arundel Clay confining unit or aquitard.

[6] Prior to the 2018 well installation activities, no monitoring wells had been completed in the Patuxent aquifer as part of the offsite groundwater investigation activities. The deeper well at the MW-30D location, as well as MW-36D were installed beneath the Arundel Clay to provide more hydrogeologic and geochemical information for this aquifer in the area of interest.

4 GROUNDWATER MONITORING PLAN AND FIELD PROCEDURES

4.1 OVERVIEW OF GROUNDWATER SAMPLING ACTIVITIES

Offsite groundwater monitoring activities were conducted during the second and fourth quarters of 2021. The monitoring activities completed during these quarters involved the collection of groundwater quality samples from all offsite monitoring wells, with the exception of MW-45 which is sampled annually, as well as the collection of water level measurements. The locations of the offsite monitoring wells are shown in Figure 4. No groundwater monitoring activities were conducted during the first or third quarters of 2021. All activities were performed following WSP's standard operating procedures (SOP's) and the September 2015 Groundwater Monitoring Plan approved by MDE and the U.S. Environmental Protection Agency (EPA). Additional information regarding the semi-annual 2021 monitoring activities is provided below.

4.2 WATER LEVEL MEASUREMENTS

Field measurements at the offsite deep monitoring wells were made during each sampling event using an electronic water level indicator. The water level was measured in MW-45 just once in 2021 (November). During the second quarter monitoring event, this well was covered by a large trailer and was inaccessible. In addition, the water levels in the MW-25D well pair were also measured just once during 2021 (May). During the 4th quarter event, these wells were covered by a disabled vehicle. WSP staff returned in December and were able to collect samples from the well pair but did not collect water level measurements.

Static water level and total well depth measurements were taken at each monitoring well to determine fluctuations in the hydraulic head within the portion of the aquifer system screened by the well and identify potential siltation problems inside the well casing. All field measurements were recorded in a bound field notebook. Historical water level measurements for the offsite monitoring wells, including data from the 2021 gauging events, are included in Table 2.

4.3 HYDRASLEEVE SAMPLING

The HydraSleeve™ sampler was used to collect groundwater samples from the offsite monitoring wells in 2021. The HydraSleeve™ is a passive/no-purge sampling device capable of collecting representative groundwater samples for analysis of a range of dissolved groundwater constituents, including VOCs and 1,4-dioxane. The samplers were installed in the wells by attaching the 2.5-foot (30-inch) long HydraSleeve™ to a weighted, nylon suspension tether and setting the sampler at the pre-determined depth within the screened interval. The depth intervals for deployment of the HydraSleeve™ samplers in the offsite wells are provided in Table 3. The suspension line was secured at the wellhead to ensure the sampler remained at the designated depth during the stabilization period, which corresponded to the time between sampling events. The groundwater sample was collected by continuously pulling upward on the suspension line until the HydraSleeve™ was full. The HydraSleeve™ was removed from the well, and the sample immediately collected in the appropriate containers to minimize any diffusive loss of VOCs through the polyethylene wall of the sampler. After obtaining the requisite sample volume for chemical analysis, a representative amount of the remaining water was placed into the sample cup of a Horiba U-52 multi-parameter field meter for measurement of the following hydrogeochemical parameters:

— Temperature

- pH
- Specific conductivity
- Turbidity

The field parameter measurements for each sample were documented in a field notebook. Following sample collection, a new HydraSleeve™ sampler was deployed in the well for the next sampling event.

Table 4 includes the field parameter measurements for the 2021 sampling events. There were some instances where the HydraSleeve™ did not provide enough groundwater for the field parameter measurements. These occurrences are marked as "not measured" in Table 4.

4.4 ANALYTICAL METHODS

All groundwater samples were analyzed by the Pace Analytical Services (Pace) laboratory in Huntersville, North Carolina for VOCs using U.S. EPA SW-846 Test Method 8260D. In addition, the samples were analyzed for 1,4-dioxane using modified U.S. EPA Method 8260D with selected ion monitoring (SIM). These test methods were also used for field quality control (QC) samples – i.e., trip blanks and duplicate samples.

5 2021 GROUNDWATER MONITORING RESULTS

5.1 GROUNDWATER QUALITY STANDARDS FOR SITE-RELATED VOCS

The current (October 2018) MDE groundwater quality standards represent the comparative criteria for all known site-related COCs detected in the offsite groundwater, excluding 1,4-dioxane. The applicable water quality standards are provided below.

- 1,1,1-Trichloroethane (TCA) – 200 micrograms per liter (µg/l)
- 1,1-Dichloroethene (DCE) – 7 µg/l
- 1,1-DCA – 2.8 µg/l
- *cis*-1,2-DCE – 70 µg/l
- Trichloroethene (TCE) – 5 µg/l

These values correspond to the standards for Type I and II unconfined and confined aquifers and, with the exception of 1,1-DCA, are consistent with the maximum contaminant levels (MCLs) and secondary MCLs developed by the U.S. EPA under the Safe Drinking Water Act. It is worth noting that the MDE groundwater quality standard for 1,1-DCA is more stringent than the Federal MCL. Based on the site hydrogeologic and hydrogeochemical data, the Lower Patapsco aquifer and Patuxent aquifer meet the definition of a Type I aquifer provided in the MDE document *Cleanup Standards for Soil and Groundwater, Interim Final Guidance (Update No. 3)*.

At present, no groundwater quality standard has been promulgated by MDE or U.S. EPA for 1,4-dioxane. Using the current default exposure factors developed by U.S. EPA and a target cancer risk of 1E-5, MDE has used a calculated risk-based groundwater criterion for 1,4-dioxane of 4.6 µg/l with respect to the plume emanating from the Site. WSP has used the risk-based level for 1,4-fioxane to evaluate the extent of impacted groundwater for the offsite area.

The following sections discuss the analytical results for each sampling event, with the primary focus on the site-related COCs listed above. The historical analytical results for all offsite monitoring wells through the 2021 sampling events are summarized in Table 5. The results for groundwater samples collected from the deep monitoring wells in 2021 are shown on Figure 5. Certified laboratory reports provided by the laboratory for each sampling event are included in Appendix A.

5.2 RESULTS OF SEMI-ANNUAL SAMPLING EVENTS

5.2.1 MAY 2021

All monitoring wells screened in the deep sand zone of the Lower Patapsco aquifer were sampled during this monitoring round. No sample was collected from shallow monitoring well MW-45 on the William Scotsman property because a large construction trailer was present over the well, rendering it inaccessible. WSP decided to postpone collecting a sample from this well until the November 2021 sampling event.

A potentiometric surface contour map for the deep, confined portion of the Lower Patapsco aquifer is provided in Figure 6 using the water level data obtained from the onsite and offsite well locations in May 2021. The potentiometric surface contours show that the south-southeast groundwater flow direction in the deep zone of the Lower Patapsco aquifer differs from the flow direction in the shallow zone of the aquifer, which is to the northwest toward Stony Run. The potentiometric contours show the hydraulic influence of the groundwater withdrawals from deep recovery wells RW-1D and RW-2D extends southward across the William-Scotsman property to the Maryland State Route 100 roadway. Beyond this pumping-induced drawdown area, the overall direction of groundwater flow, in the deep confined portion of the Lower Patapsco aquifer is to the south/southeast from the Site. The south-southeast flow direction is consistent with contour maps generated from data collected during previous events. As discussed in Section 3.2.3, dissolved constituents (*e.g.*, VOCs) will migrate downward from the shallow to deep zones of the Lower Patuxent aquifer and with groundwater flowing through the sandy deposits comprising the deep confined zone to the south-southeast of the former facility property.

Overall, the analytical data indicated the presence of site-related constituents just over one mile hydraulically downgradient (south-southeast) of the former Kop-Flex property in the deep, confined zone of the Lower Patapsco Aquifer. Site-related COCs were also detected in the sample obtained from deep well MW-46D on the Verizon property, which is located to the north of the Site. The presence of detectable COC levels is related to the close proximity of the Verizon property to the Site. The total COC concentration in the sample from this well (250.3 µg/l) was greater than the November 2020 sample (178.6 µg/l) largely due to a noticeably higher 1,4-dioxane level. The concentrations of 1,1-DCE, 1,1-DCA, and 1,4-dioxane exceeded their respective comparative groundwater quality criteria in the MW-46D sample (Table 5 and Figure 5).

In the offsite area to the immediate south, the sample from monitoring well MW-24D on the adjoining Williams-Scotsman property had the highest concentration of site-related COCs (1,255.2 µg/l). This total COC concentration is higher than the levels for both of the 2020 sampling events. Further downgradient, a total concentration of site-related COCs of 87.1 µg/l was detected in the MW-25D-130 sample, which is greater than the concentrations in the sample from the deeper well MW-25D-192 at this location (60.5 µg/l). The results for MW-25D-192 showed a noticeable reduction in COC concentrations compared to the levels detected in recent well samples, which have been generally consistent from 2018 to 2020. Even though the total concentrations of site-related COCs decreased in the May 2021 samples collected from MW-25D-130 and MW-25D-192 compared to the November 2020 results, the concentrations of 1,1-DCE, 1,1-DCA, and 1,4-dioxane were still above their respective comparative groundwater quality criteria.

The majority of the sampling data for the deep, confined Lower Patapsco monitoring wells located further downgradient indicated non-detect to low concentrations of site-related COCs, with detected levels consistent with the 2020 sample results (Figure 5 and Table 5). The highest concentrations were in the sample from the well screened from 263-273 ft BGS at the MW-30D location, which is located along the presumed centerline of the VOC plume. The groundwater sample from this well (MW-30D-273) had concentrations of 1,1-DCE (36.9 µg/l) and 1,4-dioxane (18.2 µg/l) above their respective groundwater quality criteria and very similar to the results from the November 2020 sampling round (39.5 µg/l and 19.5 µg/l, respectively). In addition, the concentrations of 1,1-DCE in the MW-28D sample (10 µg/l) and 1,4-dioxane in the sample from the deeper well at the MW-33D location (5.6 µg/l) slightly exceeded their respective comparative criteria. The concentration of 1,4-dioxane in the MW-33D sample is consistent with data from previous monitoring events. However, the 1,1 DCE concentration in the MW-28D sample has not been at or above 10 µg/l since September 2016. The higher 1,1-DCE concentration at this location is believed to reflect temporal fluctuations in constituent mass flux along the lateral margin of the plume. This effect is most likely due to naturally occurring, minor, transient changes in the groundwater velocity, particularly the direction of flow. The sample results for the remaining offsite wells screened in the deep zone of the Lower Patapsco aquifer (MW-29D, MW-31D, MW-32D, MW-34D and MW-35D) were non-detect for all site-related COCs.

Consistent with sampling events from previous years, no site-related VOCs or 1,4-dioxane were detected in the samples collected from the Patuxent aquifer monitoring wells MW-36D and MW-30D-413. These results indicate that COCs have not migrated downward through the Arundel Clay confining unit that hydraulically separates the deep sand zone of the Lower Patapsco aquifer and Patuxent aquifer.

5.2.2 NOVEMBER 2021

Groundwater samples and water level measurements were collected from all monitoring wells screened in the deep, confined zone of the Lower Patapsco aquifer and Patuxent aquifer and the one well screened in the shallow zone in November 2021. WSP had to return to the Site in late December to collect samples from the MW-25D monitoring well pair MW-25D in the Harmans Woods Community because the wells were covered by a disabled vehicle during the November sampling activities.

No COCs were detected in the sample from shallow zone well MW-45. This finding is consistent with information discussed above, regarding the unlikelihood of COCs migrating offsite in the shallow zone of the Lower Patapsco aquifer to the east of the Site.

A potentiometric surface contour map for the deep, confined zone of the Lower Patapsco aquifer is shown in Figure 7 using the water level data obtained onsite and offsite monitoring wells during the November 2021 sampling event. (It should be noted that water levels from the MW-25D well pair were not used in generating the potentiometric surface contour map). The hydraulic containment system was temporarily shut down one week prior to conducting the monitoring activities, so the contours depicted in Figure 7 reflect the potentiometric surface under non-pumping conditions. The general direction of groundwater flow in this portion of the Lower Patapsco aquifer is to the south-southeast in the offsite area south of Maryland Route 100, which is consistent with determinations from contour maps generated for previous monitoring events. The hydraulic head gradients were consistent with and provided further confirmation for prior data demonstrating that the groundwater flow direction in the deep zone of the Lower Patapsco aquifer differs from the direction of flow in the shallow zone of this aquifer, which is generally to the north and west toward Stony Run. As discussed above, dissolved constituents (*e.g.*, VOCs) will migrate downward from the shallow to deep zones of the Lower Patuxent aquifer and with groundwater flowing through the sandy deposits comprising the deep confined zone to the south-southeast of the former facility property.

In general, the analytical data generated in November 2021 was consistent with previous data in demonstrating the presence of site-related constituents just over one mile hydraulically downgradient (south-southeast) of the Site in the deep, confined zone of the Lower Patapsco Aquifer. Site-related COCs were also detected in the sample from the deep zone of the Lower Patapsco aquifer screened by well MW-46D on the neighboring Verizon property to the north of the Site. The presence of detectable COC levels is most likely related to the close proximity of the Verizon property to the Site. The total COC concentration in the MW-46D sample (192.5 µg/l) was noticeably less than the level in the May 2021 sample (250.3 µg/l). The concentrations of 1,1- DCE; 1,1- DCA; and 1,4-dioxane show a decrease from the May to November 2021 sampling events. However, all of these COCs continued to exceed their respective comparative groundwater quality criteria (Table 2).

In the offsite area immediately south of the Site, the sample from monitoring well MW-24D on the Williams-Scotsman property had the highest concentration of site-related COCs (1,943.1 µg/l). This total COC concentration is the highest detected since March 2016, mostly due to a noticeable spike in the 1,1-DCE concentration (Table 5). The levels for other detected COCs are similar to or slightly higher than recent samples from this well. Further downgradient, a total site-related COC concentration of 80.9 µg/l was detected in the MW-25D-130 sample. This concentration is slightly lower than the level present in the May 2021 event (87.1 µg/l), and greater than the concentrations in the sample from the deeper well MW-25D-192 at this location (57.2 µg/l). Even though the total concentrations of site-related COCs continue to decline in the samples from the MW-25D well pair, the concentrations of 1,1-DCE, 1,1-DCA, and 1,4-dioxane are still above their respective comparative groundwater quality criteria.

The majority of the sampling data for the deep, confined Lower Patapsco monitoring wells located further downgradient indicated non-detect to low concentrations of site related COCs (Figure 5 and Table 5). The highest concentrations were detected in the sample from the well screened from 263-273 ft BGS at the MW-30D location, which is located along the presumed centerline of the VOC plume. The groundwater sample from this well (MW-30D-273) had concentrations of 1,1-DCE (34.1 µg/l) and 1,4-dioxane (16.6 µg/l) above their respective groundwater quality criteria, and very similar to the levels

detected in the last several sampling events. In addition, the concentrations of 1,1-DCE (8.1 µg/l) and 1,4-dioxane (5.1 µg/l) in the MW-28D sample and 1,4-dioxane (6.1 µg/l) in the sample from the deeper well at the MW-33D location slightly exceeded their respective comparative criteria. The isolated fact of the presence of 1,4-dioxane (6.1 µg/l) in the MW-33D-295 sample and 1,1-DCE (8.1 µg/l) in the MW-28D sample are consistent with recent monitoring events. However, the 1,4-dioxane had not been detected above the MDE risk-based criterion of 4.6 µg/l at the MW-28D location since September 2016. As discussed in Section 5.2.1 for 1,1-DCE, the slight increase in the 1,4-dioxane concentration in the November 2021 sample likely reflects fluctuations in the constituent mass flux along the plume margin due to naturally occurring, minor, transient variations in the groundwater flow velocity. This explanation of possible short-term changes in COC concentrations near the plume boundaries will be further evaluated with the collection of additional groundwater quality data. The sample results for the remaining offsite wells screened in the deep zone of the Lower Patapsco aquifer (MW-29D, MW-31D, MW-32D, MW-34D and MW-35D) were non-detect for all site-related COCs.

Consistent with the May 2021 and earlier sampling events, no site-related VOCs or 1,4-dioxane was detected in samples from wells MW-36D and MW-30D-413 screened in the Patuxent aquifer. These results indicate that COCs have not migrated downward through the Arundel Clay confining unit overlying the Patuxent aquifer.

6 SUMMARY AND CONCLUSIONS

6.1 COC DISTRIBUTION

Based on the analytical data, the offsite occurrence of VOCs and 1,4-dioxane derived from historical releases at the Site is limited to the deep zone of the Lower Patapsco aquifer. The concentrations of the site-related VOCs and 1,4-dioxane were generally consistent in samples collected during the 2021 monitoring events. The exceptions would be well MW-24D, which is the closest deep zone monitoring point to the recovery wells screened in the deep zone of the Lower Patapsco aquifer, and MW-28D located further downgradient in the southeast portion of the Harmans Woods community. MW-24D exhibited increases in detected COC levels from the May to November 2021 events. Since mid-2020 there has been a steady increase in concentrations of both 1,4-dioxane and 1,1-DCE in the samples from this monitoring well. The samples from MW-28D exhibited slightly higher concentrations of 1,1-DCE and 1,4-dioxane in the 2021 samples compared to 2020, with both of these constituents exceeding their comparative criteria during the November 2021 sampling event. Given the short time-period (less than 2 years) in which these concentrations have increased, it is possible that this is a temporary trend that does not continue into the future. WSP will monitor the VOC concentrations in these wells during future events and re-evaluate the causal mechanism(s) if an increase in COC concentrations continues at the offsite locations.

The iso-concentration maps shown in Figures 8 and 9, depict the inferred horizontal extent of the 1,1 DCE and 1,4-dioxane plumes within the deep zone of the Lower Patapsco aquifer based on the November 2021 sampling data. These iso-concentration maps also include data for the deep zone monitoring wells in the onsite area to provide a better understanding of the overall constituent distribution within this portion of the aquifer. Based on the data from well MW-46D, the northern (upgradient) boundaries of the plume areas in the deep zone of the Lower Patapsco aquifer extend onto the neighboring Verizon property. In the area downgradient of the Site, the inferred extents of these COCs within the Lower Patapsco aquifer deep zone are similar to the distributions determined from the 2020 monitoring data. The deep zone wells containing the highest site-related VOC concentrations - MW-24D on the William Scotsman property and MW-25D well pair in the northeast corner of the Harmans Woods residential community - are located less than ¼ mile south of the Site. The only other deep zone monitoring wells that consistently had 1,1 DCE and/or 1,4-dioxane concentrations above the applicable groundwater comparative criteria in the 2021 samples were MW-28D, MW-30D-273 and MW-33D-295 (Figure 5 and Table 5).

Wells at the MW-25D, MW-30D and MW-33D locations are presumed to be along the centerlines of the 1,1-DCE and 1,4-dioxane plumes. The sample results from wells MW-29D, MW-31D, MW-32D, MW-34D and MW-35D are used to delineate the width and downgradient extent of the plume areas in the deep zone of the Lower Patapsco aquifer. Based on the analytical data from MW-33D-295, the downgradient extent of the deep zone 1,4-dioxane plume (Figure 9) extends a bit further southeast than the commingled 1,1-DCE plume (Figure 8). The width of the 1,1-DCE plume is greater than previous years due to the detection of slightly higher 1,1-DCE concentration at the MW-28D location in both 2021 sampling events. The available data does not enable a determination as to whether the minor westward shift in the plume boundary is the result of dispersive processes associated with the migration of dissolved constituents within the aquifer material or advective transport of constituents originating from an upgradient area. The slight increasing trends in the 1,1-DCE and 1,4-dioxane concentrations at this well will be monitored closely in future events. Given the COC distributions shown in the iso-concentration maps, the impacted groundwater in the deep zone of the Lower Patapsco aquifer south of MD Route 100 consists of diffuse plumes characterized by relatively low contaminant concentrations.

As mentioned above, evaluation of the sampling data indicates the permeable sand deposits comprising the deep zone of the Lower Patapsco aquifer represent the primary hydro-stratigraphic interval for the offsite migration of COCs from the former Kop-Flex facility. Site-related COCs have not been identified – nor are they expected to be present – in the offsite portion of

the shallow zone of the Lower Patapsco aquifer to the south of the Site. Historical water level data from the offsite monitoring wells completed at different depths consistently indicate a downward vertical flow component within the Lower Patapsco aquifer, and from the Lower Patapsco aquifer to the underlying Patuxent aquifer. This vertical head differences indicative of downward flow also appear to be present, albeit at a significantly smaller magnitude, within the sandy deposits comprising the deep zone, as indicated by the water level (Table 2) and water quality (Table 5) data for the MW-33D well pair. These intra-zone head variations imply that dissolved contaminants will tend to migrate vertically downward from the upper to lower portion of the deep zone of the Lower Patapsco aquifer. The MW-25D well pair does not exhibit the vertical head changes to the same extent as the MW-33D well pair. Even with this downward flow component, data from monitoring wells MW-30D-413 and MW-36D screened in the Patuxent aquifer have continued to indicate no detections of site-related COCs. These sample results demonstrate that dissolved constituents comprising the plumes in the deep zone of the Lower Patapsco aquifer have not migrated through the dense, thick clayey deposits of the Arundel Clay confining unit. Based on the sampling data, the Arundel Clay unit is effectively limiting the vertical downward migration of the site-related COCs, thereby restricting contaminant transport to the sandy deposits comprising the deep zone of the Lower Patapsco aquifer.

6.2 TRENDS IN COC CONCENTRATIONS

Figure 10 include graphs showing concentrations of 1,1-DCE and 1,4-dioxane with respect to time (late 2016 through 2021) for monitoring wells screened in the deep zone of the Lower Patapsco aquifer. The selected wells are located along the inferred centerline of the groundwater plume. These plots were developed to help elucidate temporal trends in concentrations for the primary COCs within the impacted portion of the aquifer. The data presented in the concentration *vs.* time plots are for groundwater samples collected using the passive (HydraSleeve™) sampler, which was implemented during the fourth quarter 2016 monitoring event. This date was a few months before the start-up of the onsite hydraulic containment system (System) in Match 2017.

A Mann-Kendall analysis was conducted to analyze the trend of 1,1-DCA, 1,2-DCA, 1,1-DCE, 1,4-dioxane, and 1,1,1-TCA concentrations detected in groundwater samples from the applicable deep zone monitoring wells[7] that were collected from December 2016 through December 2021. The Mann-Kendall analysis is a non-parametric (rank-based) procedure that tests for simple monotonic (*i.e.*, single direction – increasing or decreasing) trends. The Mann-Kendall test is insensitive to gross outliers and does not make assumptions regarding data distributions.

The Mann-Kendall trend analysis for applicable wells was based on the *GSI Mann-Kendall Toolkit for Consistent Trend Analysis*, which is a spreadsheet system for analyzing time-series groundwater monitoring data to quantitatively determine if the measured concentrations of a chemical are increasing, decreasing, or stable over time. The analysis relies on three statistical metrics (GSI Environmental Inc. 2012):

- "S" Statistic, which indicates whether the concentration trend versus time is generally decreasing (i.e., negative "S" value) or increasing (positive "S" value)
- Confidence Factor (CF), which modifies the "S" Statistic calculation to indicate the degree of confidence in the trend result, as in "Decreasing" versus "Probably Decreasing" or "Increasing" versus "Probably Increasing." In addition, if the CF is low (i.e., less than 90%) due to either considerable variability in concentrations versus time or little change in concentrations versus time, the CF is used to apply a preliminary "No Trend" classification, pending the Coefficient of Variation.
- Coefficient of Variation (COV), which is used to distinguish between a "No Trend" result (significant scatter in concentration trend versus time) and a "Stable" result (limited variability in concentration versus time) for datasets with no significant increasing or decreasing trend (e.g., less than 90% CF).

[7] The applicable wells are those seven wells where 1,1-DCA, 1,2-DCA, 1,4-dioxane, and/or 1,1,1-TCA were detected in at least 50% of the samples collected from these wells.

By using these three metrics, the concentration trend at each sample location can be matched to one of six categories - increasing, decreasing, probably increasing, probably decreasing, stable, or no trend – which are defined below.

S Statistic	Confidence in Trend	Trend
S > 0	CF > 95%	Increasing
S > 0	90% ≤ CF ≤ 95%	Probably Increasing
S > 0	CF < 90%	No Trend
S ≤ 0	CF < 90% and COV ≥ 1	No Trend
S ≤ 0	CF < 90% and COV < 1	Stable
S < 0	90% ≤ CF ≤ 95%	Probably Decreasing
S < 0	CF > 95%	Decreasing

The 1,1-DCA, 1,2-DCA, 1,1-DCE, 1,4-dioxane, and 1,1,1-TCA concentrations detected in applicable offsite monitoring wells that were used in the Mann Kendall analysis are provided in Table 6. The following assumptions were made for the trend analysis:

- 1,1-DCA, 1,2-DCA, 1,1-DCE, 1,4-dioxane, and 1,1,1-TCA from sampling events that occurred from December 2016 through December 2021 were assumed in the dataset for seven offsite wells.
- For samples with non-detect results, a common value was assumed for a given compound that was either lower or equal to the lowest concentration detected in the dataset (U.S. Environmental Protection Agency 2009). The value assumed for non-detect results was the method detection limit for the sample with the lowest detected concentration of a given compound.
- According to GSI Environmental Inc. (2012), "For wells in which all or a large majority of the results are non-detect for a chemical, the true concentration trend for this chemical is considered stable at a concentration below the detection limit. In this case, the Mann-Kendall analysis will not be very informative of the true concentration trend, as the method will simply indicate the trend of the non-detect values vs. time." Therefore, for this analysis, a Mann-Kendall statistic was not calculated if more than 50% of the samples had non-detect concentrations of a specific compound in a well (Interstate Technology & Regulatory Council 2013).

The following discussion of concentration trends focuses on the primary (*i.e.*, most ubiquitous) COCs in the offsite groundwater – 1,1-DCE and 1,4-dioxane.

Evaluation of the sampling data for deep zone well MW-46D, which is located on the Verizon property north of the Site, did not indicate any statistically significant trends in the 1,1-DCE or 1,4-dioxane concentrations. Given this well's upgradient location, the absence of any discernable trends in COC levels is not unexpected. WSP will continue to evaluate data from this monitoring point to identify any future trends in COC concentrations in the deep zone of the Lower Patapsco aquifer in this portion of the offsite area.

Since the start-up of the onsite System, 1,1-DCE and 1,4-dioxane concentrations in samples from monitoring wells located south of the Site have been 'stable' in some wells, while other wells show either decreasing or increasing trends in concentrations of these COCs. The data for MW-24D (Figure 10), which is the closest deep zone monitoring point to the deep recovery wells, exhibits noticeable fluctuations in the 1,1-DCE and 1,4-dioxane concentrations. As stated earlier, the November 2021 concentrations were higher than they have been in previous years. Conversely, samples from May 2019 to May 2020 showed a decrease in COC concentrations, with levels from both 2020 sampling events resembling levels detected in 2018. Overall, the statistical testing of the MW-24D data indicates no trend in the 1,1-DCE or 1,4-dioxane concentrations following the onset of System operation.

At the MW-25D location, well MW-25D-130, which is screened in the upper portion of the Lower Patapsco aquifer deep zone, exhibits statistically significant decreasing trends for both 1,1-DCE and 1,4-dioxane from 2017 to present (Figure 10). Data for the sample from well MW-25D-192, which is completed in the lower portion of the deep zone, also has declining

trends for these COCs over the 2017-2021 time period. This well shows a noticeable decline in the 1,1-DCE and 1,4-dioxane concentrations in 2021 compared to the previous years. The decreasing concentration trends indicated by the statistical testing of the sampling data suggest an influence from the extraction of COC-containing groundwater by the System. Thus, the temporal changes in the COC levels suggests pumping from the deep recovery wells is successfully preventing further offsite migration of site-related VOCs within the deep zone of the Lower Patapsco aquifer.

At the MW-28D location, concentrations of 1,1-DCE and 1,4-dioxane have generally increased during the past three years. As a result, the 1,1-DCE concentrations have exceeded the Groundwater Quality Standard for the past 3 monitoring events, while the 1,4-dioxane concentration in the November 2021 sample exceeded the risk-based numerical level for the first time since 2016. Both of these COCs have historically had detections above laboratory detection limits but just below their respective comparative groundwater quality criteria. Therefore, it is possible these slight increases are not indicative of concentration trends that may continue for an extended (*i.e.*, >5-year) time period at this well location.

Statistical testing of the sample results from well MW-30D-273 indicate stability with respect to the 1,1-DCE levels but a probable decreasing trend for 1,4-dioxane. Further downgradient, statistically significant decreasing concentration trends were indicated for 1,1-DCE and 1,4-dioxane based on the sample data from well MW-33D-295. Both of these monitoring wells are situated closer to the leading edge of the groundwater plume in the deep zone of the Lower Patapsco aquifer (Figures 8 and 9). These trend testing results indicate the plume has likely reached a stable, or steady-state, condition in this part of the aquifer system.

Overall, the monitoring wells in the immediate vicinity of the site (MW-24D and MW-46D) do not exhibit any noticeable statistical trends, and still show some fluctuations in the analytical data. The monitoring wells more toward the middle of the plume (the MW-25D pair, MW-28D and MW-30D-273) the trends vary. The MW-25D well pair show noticeable decreasing trends of VOC concentrations. MW-28D shows slight increases in the VOC concentrations, While MW-30D-273 display stable trends.

6.3 PLANNED 2022 OFFSITE GROUNDWATER MONITORING ACTIVITIES

The collection of water level readings and groundwater quality samples from the 16 deep monitoring wells in the offsite area will continue at a semi-annual frequency during the 2022 calendar year in accordance with the procedures described in Section 5 of this report. WSP believes the existing monitoring well network is sufficient to monitor the distribution of site-related COCs in the offsite areas affected by releases at the former Kop-Flex facility property. The groundwater monitoring activities in 2022 were to be conducted during the second and fourth quarters. Samples have already been collected from all offsite monitoring wells, excluding shallow well MW-45, which will be sampled during the fourth quarter in 2022. No sampling or water level measurement activities are currently planned for the first and third quarters of 2022.

As part of MDE's and U.S. EPA's approval for the use of the HydraSleeve™ sampler for the groundwater monitoring activities at the Site, the agencies requested that further evaluation be conducted on the applicability of this passive sampling method for collecting representative water quality samples from the aquifer system. Given the HydraSleeve™ sampler has been in continuous use for more than 5 years, WSP believes that sufficient data is available to complete a comparative assessment of the performance of the passive and low-flow sampling methods for the Site monitoring network. Since this assessment will include data from both onsite and offsite monitoring wells, the sampler performance evaluation will be provided in a separate report to MDE and U.S. EPA. The tentative date for the submittal of this report is October 2022.

7 ACRONYMS

BGS	Below Ground Surface
COC	Constituent of Concern
DCA	Dichloroethane
DCE	Dichloroethene
GWMP	Groundwater Monitoring Plan
MCL	Maximum Contaminant Levels
MDE	Maryland Department of the Environment
MSL	Mean Sea Level
MW	Monitoring Well
QC	Quality Control
SIM	selected ion monitoring
SOP	Standard Operating Procedure
TCA	Trichloroethane
TCE	Trichloroethene
µg/l	Micrograms per Liter
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
VOCs	Volatile Organic Compounds

8 REFERENCES

- State of Maryland Department of the Environment Cleanup Standards for Soil and Groundwater (October 2018) Interim Final Guidance (Update No. 3).
- United States Geological Survey (USGS) topographic 7.5-minute series quadrangle map for Relay, Maryland (revised 1974).
- WSP USA (September 2015) Groundwater Monitoring Plan, Former Kop-Flex facility, Hanover, Maryland – Voluntary Cleanup Program Site #31.
- WSP USA (May 2020) Quarterly Offsite Report NO. 14 – Offsite Area, Former Kop-Flex Facility Site (January 2020 through March 2020).
- WSP USA (August 2020) Quarterly Offsite Report NO. 15 – Offsite Area, Former Kop-Flex Facility Site (April 2020 through June 2020).
- WSP USA (January 2021) Quarterly Offsite Report NO. 16 – Offsite Area, Former Kop-Flex Facility Site (October 2020 through December 2020).
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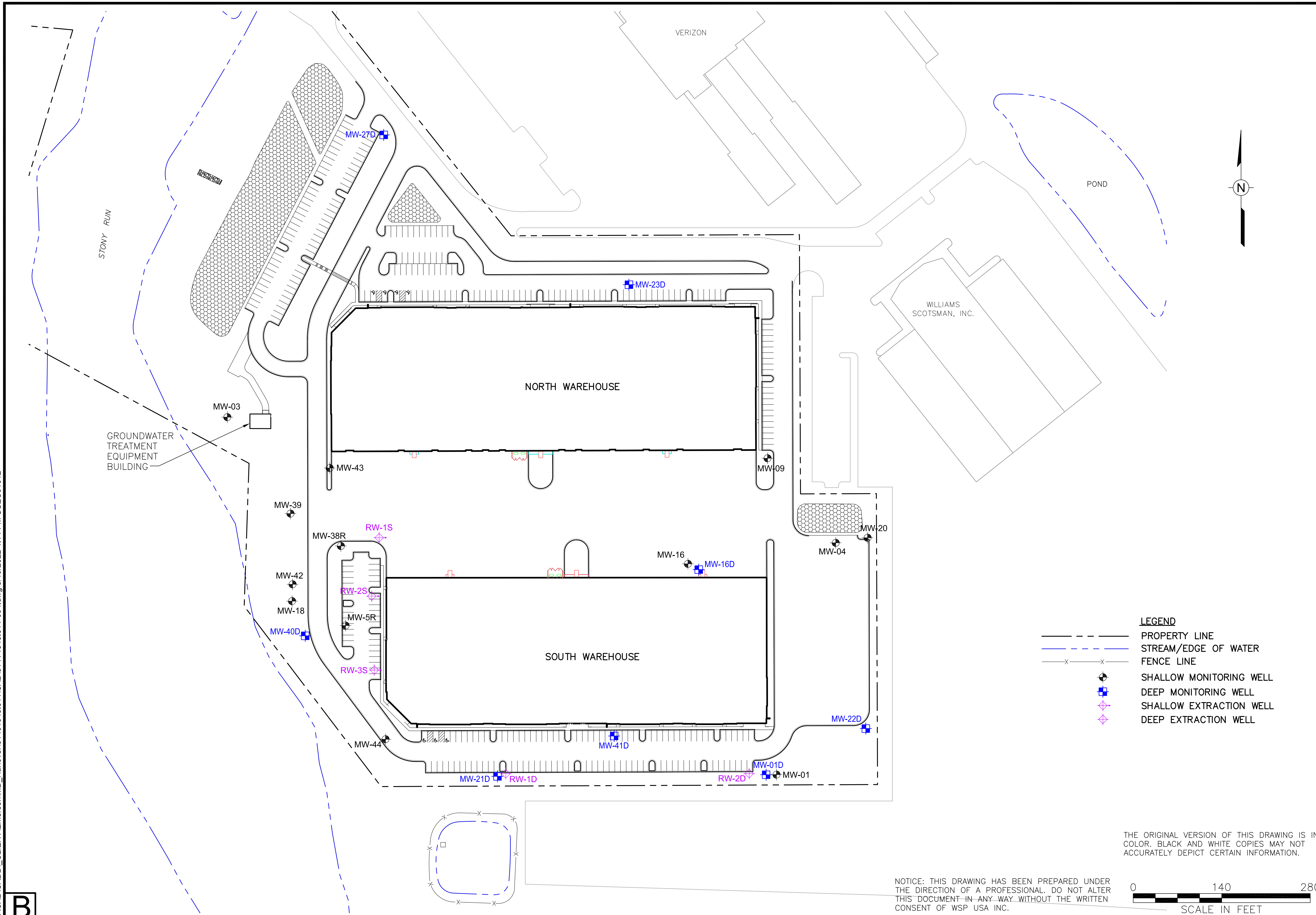
- GSI Environmental Inc. 2012. GSI Mann-Kendall Toolkit for Constituent Trend Analysis. User's Manual. Version 1.0. November.
- The Interstate Technology & Regulatory Council. 2013. Groundwater Statistics for Monitoring and Compliance, Statistical Tools for the Project Life Cycle. December.
- U.S. Environmental Protection Agency. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance. EPA/530/R/09-007. Washington D.C. March.

FIGURES



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Drawn By: EGC
Checked: CC 5/19/2022
Approved:
DWG Name: 314V1545.011-094

FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND

PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

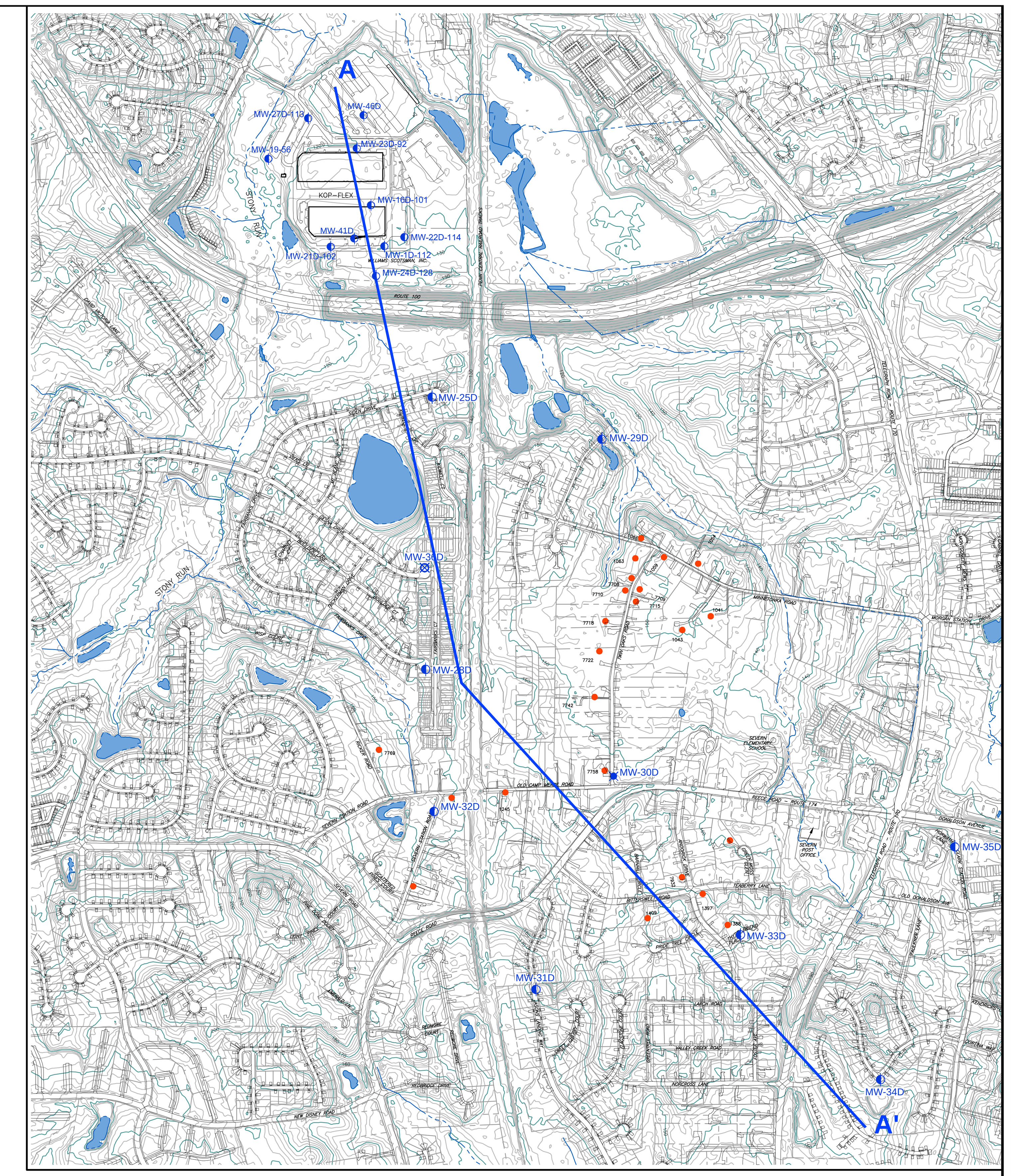
FIGURE 1

SITE LAYOUT

WSP USA Inc.
13530 DULLES TECHNOLOGY DR
SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500

R:\ACAD\CADD_CLIENT\EmersonMD_Hanover\31401545.011\CAD\314V1545.011-094.dwg 5/19/2022 4:14 PM USEC01012

LEGEND
PROPERTY LINE
STREAM
WATER BODY
CONFINED LOWER PATAPSCO AQUIFER MONITORING WELL
CONFINED LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER MONITORING WELL
PATUXENT AQUIFER MONITORING WELL
FORMER OR EXISTING RESIDENTIAL WELL



CROSS SECTION LOCATION MAP
SCALE: 1"=800'

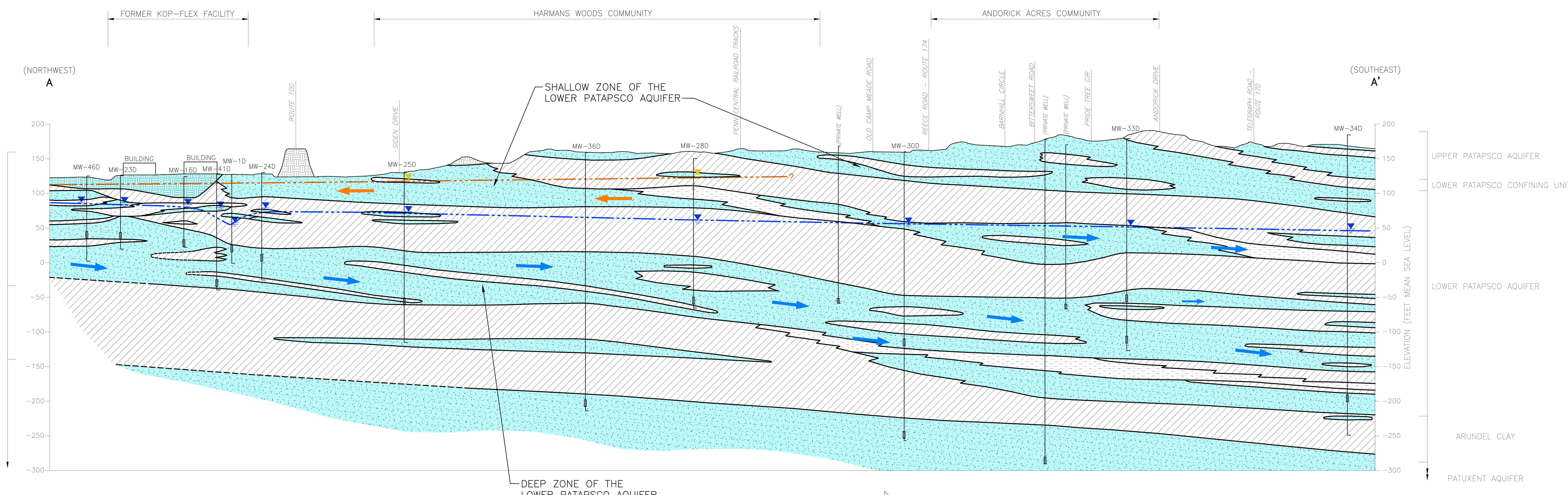
CROSS-SECTION LEGEND

SAND
INTERLAYERED SAND AND CLAY
CLAY
FILL MATERIAL
PIEZOMETRIC HEAD IN SHALLOW PORTION OF LOWER PATAPSCO AQUIFER (WATER LEVEL DATA RECORDED IN 4TH QUARTER 2018)
POTENTIOMETRIC HEAD IN DEEP/CONFINED PORTION OF LOWER PATAPSCO AQUIFER
BOREHOLE
SCREEN
DECOMMISSIONED WELL
END OF BOREHOLE

CLAIMANT WELL
BOREHOLE
SCREEN
END OF BOREHOLE

GROUNDWATER FLOW DIRECTION – DEEP/CONFINED PORTON OF LOWER PATAPSCO AQUIFER
POTENTIOMETRIC SURFACE – DEEP/CONFINED PORTON OF LOWER PATAPSCO AQUIFER
GROUNDWATER FLOW DIRECTION – SHALLOW/UNCONFINED PORTON OF LOWER PATAPSCO AQUIFER
GROUNDWATER SURFACE – SHALLOW/UNCONFINED PORTON OF LOWER PATAPSCO AQUIFER

NOTE:
EXISTING GRADE IS BASED ON SURFACE ELEVATION AT THE SECTION LINE NOT THE ELEVATION OF THE TOP OF THE MONITORING WELL OR BOREHOLE.



0 80 160 320
VERTICAL SCALE IN FEET

0 400 800 1200
HORIZONTAL SCALE IN FEET

VE=5
80
400

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6/27/2022

HYDROGEOLOGIC CROSS-SECTION AND CONCEPTUAL MODEL OF GROUNDWATER FLOW SYSTEM
FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND

PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

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FIGURE 2
Drawing Number
314V1545.011-096

D

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LEGEND

- PROPERTY LINE
- GROUND SURFACE CONTOUR
- WATER MAIN
- WATER MAIN EXTENSION
- STREAM
- WATER BODY
- ONSITE SHALLOW MONITORING WELL
- OFFSITE SHALLOW MONITORING WELL
- 118.8 GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER SURFACE CONTOUR, NOVEMBER 2018 (DASHED WHERE INFERRED)

NOTES:

1. FIGURE DEPICTS THE GROUNDWATER SURFACE IN SHALLOW (UNCONFINED) ZONE OF THE LOWER PATAPSCO AQUIFER.
2. WELLS MW-25 AND MW-28 WERE ABANDONED IN AUGUST 2019

0 600 1200
SCALE IN FEET

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B REFERENCE: BASE FEATURES; ROADS, PARCELS, BUILDINGS, WATER FEATURES FROM ANNE ARUNDEL COUNTY WEBSITE. http://www.aacounty.org/departments/planning-and-zoning/research-and-gis/gis/

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FIGURE 3

GROUNDWATER SURFACE IN FOR THE SHALLOW, UNCONFINED ZONE OF LOWER PATAPSCO AQUIFER IN THE ONSITE AND OFFSITE AREA

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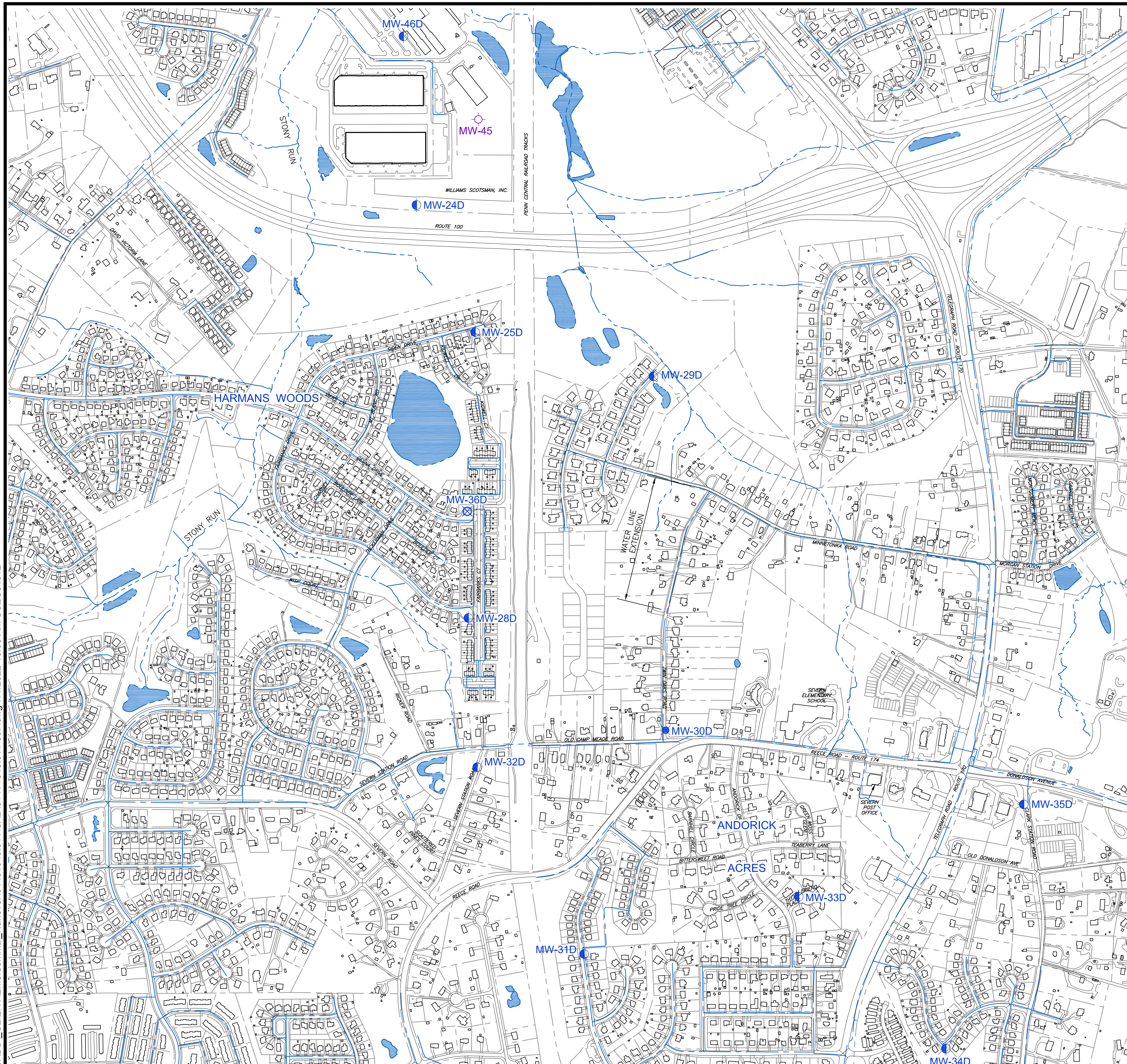

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LEGEND

- PROPERTY LINE
- WATER MAIN
- WATER MAIN EXTENSION
- STREAM
- WATER BODY
- SHALLOW MONITORING WELL
- CONFINED LOWER PATAPSCO AQUIFER MONITORING WELLS
- CONFINED LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER MONITORING WELLS
- PATUXENT AQUIFER MONITORING WELLS

N

0 800 1600

SCALE IN FEET

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FIGURE 4

OFFSITE MONITORING WELL LOCATIONS IN LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER

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MW-46D		
	May-21	Nov-21
1,1-DCA	25.7	19.9
1,2-DCA	1.5	ND
1,1-DCE	116	87
1,4-Dioxane	99.3	79.9
1,1,1-TCA	7.8	4.8

MW-24D		
	May-21	Nov-21
1,1-DCA	151	142
1,2-DCA	6.3	ND
1,1-DCE	788	1,300
1,4-Dioxane	299	475
1,1,1-TCA	10.9	16.1

MW-25D	May-21		Dec-21	
	120-130'	182-192'	120-130'	182-192'
1,1-DCA	3.0	6.5	3.0	6.2
1,2-DCA	ND	ND	ND	NA
1,1-DCE	50.8	28.2	45.5	26.0
1,4-Dioxane	30.2	22.6	29.1	21.6
1,1,1-TCA	3.1	3.2	3.3	3.4

MW-29D		
	May-21	Nov-21
	141-151'	141-151'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	ND
1,4-Dioxane	ND	ND
1,1,1-TCA	ND	ND

MW-36D		
	May-21	Nov-21
	350-360'	350-360'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	ND
1,4-Dioxane	ND	ND
1,1,1-TCA	ND	ND

MW-28D		
	May-21	Nov-21
	200-210'	200-210'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	10	8.1
1,4-Dioxane	4.3	5.1
1,1,1-TCA	ND	ND

MW-30D	May-21		Nov-21	
	263-273'	403-413'	263-273'	403-413'
1,1-DCA	ND	ND	ND	ND
1,2-DCA	ND	ND	ND	ND
1,1-DCE	36.9	ND	34.1	ND
1,4-Dioxane	18.2	ND	16.6	ND
1,1,1-TCA	ND	ND	ND	ND

MW-32D		
	May-21	Nov-21
	226-236'	226-236'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	ND
1,4-Dioxane	ND	ND
1,1,1-TCA	ND	ND

MW-35D		
	May-21	Nov-21
	288-298'	288-298'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	ND
1,4-Dioxane	ND	ND
1,1,1-TCA	ND	ND

MW-33D	May-21		Nov-21	
	225-235'	285-295'	225-235'	285-295'
1,1-DCA	ND	ND	ND	ND
1,2-DCA	ND	ND	ND	ND
1,1-DCE	ND	4.4	ND	4.2
1,4-Dioxane	ND	5.6	ND	6.1
1,1,1-TCA	ND	ND	ND	ND

MW-31D		
	Jun-21	Nov-21
	270-280'	270-280'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	ND
1,4-Dioxane	ND	ND
1,1,1-TCA	ND	ND

MW-34D		
	May-21	Nov-21
	375-385'	375-385'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	ND
1,4-Dioxane	ND	ND
1,1,1-TCA	ND	ND

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LEGEND

- PROPERTY LINE
- WATER MAIN
- STREAM
- WATER BODY
- CONFINED LOWER PATAPSCO AQUIFER MONITORING WELL
- PATUXENT AQUIFER MONITORING WELLS
- CONFINED LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER MONITORING WELLS
- RECOVERY WELL

MW-28D		
	May-21	Nov-21
	200-210'	200-210'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	10	8.1
1,4-Dioxane	4.3	5.1
1,1,1-TCA	ND	ND

- WELL IDENTIFICATION
- DATE
- SCREENED INTERVAL (FT-BGS)
- SAMPLE RESULTS IN ppb (RED INDICATES RESULTS ABOVE MDE CLEANUP STANDARDS)
- CONSTITUENTS

DCA	DICHLOROETHANE
DCE	DICHLOROETHENE
TCA	TRICHLOROETHANE
ND	NOT DETECTED
	DATA FOR WELL SCREENED IN PATUXENT AQUIFER

NOTE:
SHALLOW WELLS MW-25 AND MW-28 WERE ABANDONED IN AUGUST 2019.

0 800 1600
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REFERENCE:
PARCEL INFORMATION OBTAINED FROM ANNE ARUNDEL COUNTY, DEPARTMENT OF PUBLIC WORKS http://gis-world2.aacounty.org/DPWcounter/countermap.html

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FIGURE 5

OFFSITE DEEP MONITORING WELL
ANALYTICAL DATA - 2021

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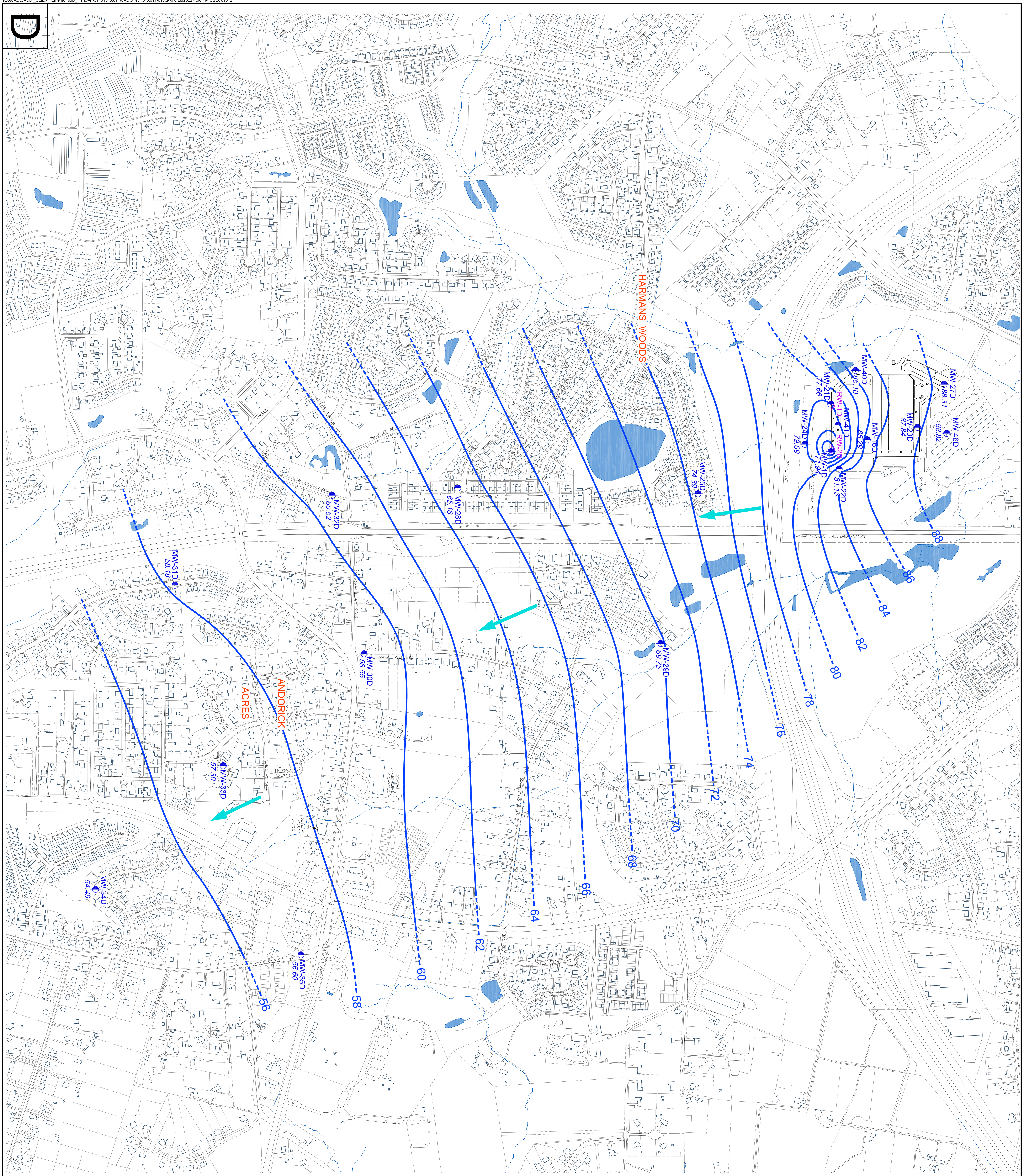

LEGEND

PROPERTY LINE

STREAM

WATER BODY

MONITORING WELL

RECOVERY WELL

72.18 GROUNDWATER SURFACE ELEVATION (FEET MSL)

GROUNDWATER SURFACE CONTOUR (DASHED WHERE INFERRED)

INFERRED GROUNDWATER FLOW DIRECTION

NOTE:

FIGURE DEPICTS THE POTENTIOMETRIC SURFACE IN THE DEEP (CONFINED) ZONE OF THE LOWER PATAPSCO AQUIFER.

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SCALE IN FEET

N

POTENTIOMETRIC SURFACE CONTOUR MAP UNDER REMEDIAL PUMPING CONDITIONS, DEEP CONFINED PORTION OF THE LOWER PATAPSCO AQUIFER – MAY 2021

FORMER KOP–FLEX FACILITY SITE
HANOVER, MARYLAND

PREPARED FOR

EMERSUB 16 LLC
ST. LOUIS, MISSOURI

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FIGURE 6

Drawing Number
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REV	DESCRIPTION		
1	Revised:	Chkd:	Appr.:
2	Revised:	Chkd:	Appr.:
3	Revised:	Chkd:	Appr.:

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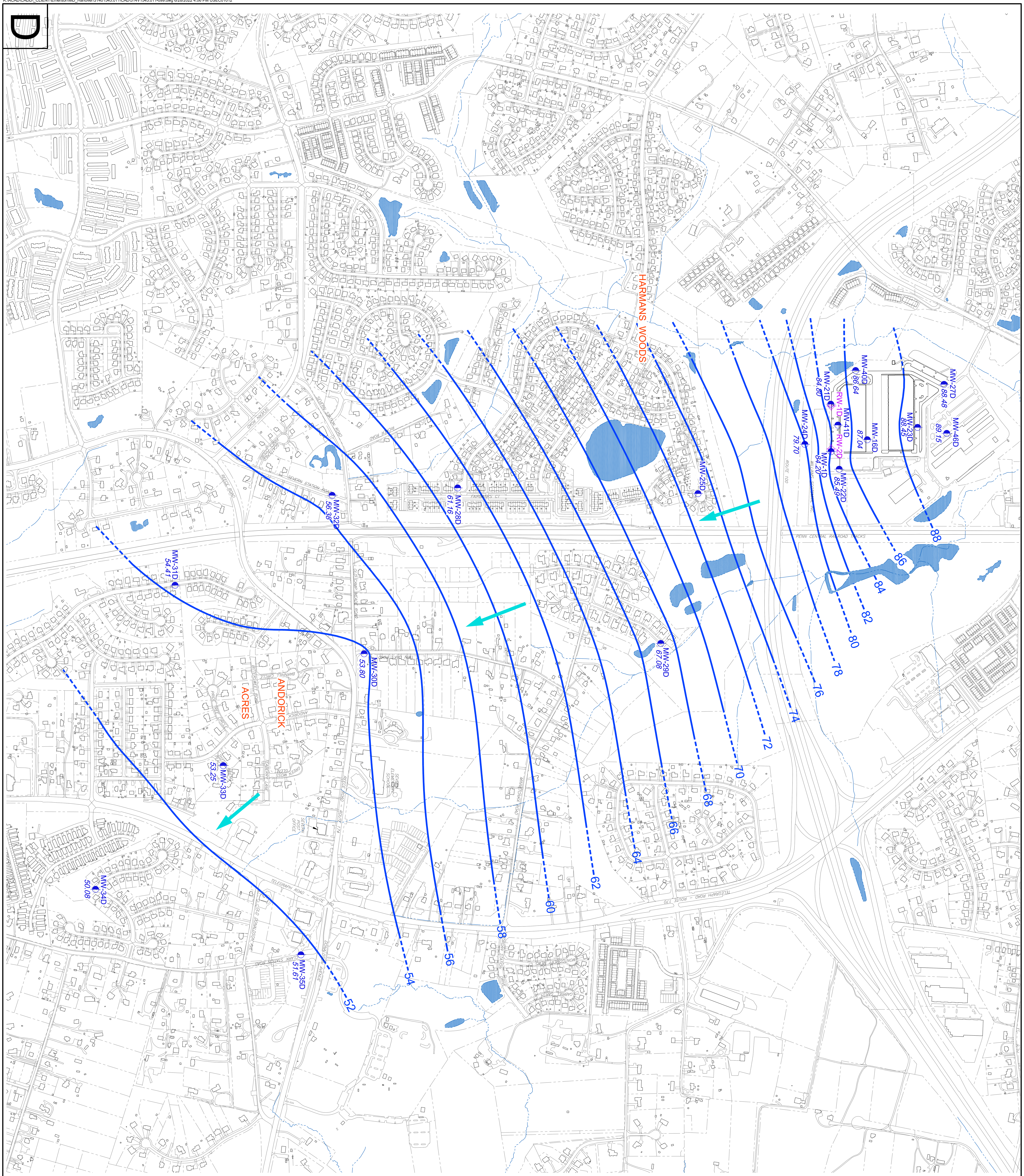

LEGEND

- PROPERTY LINE
- STREAM
- WATER BODY
- MONITORING WELL
- RECOVERY WELL
- 72.18 GROUNDWATER SURFACE ELEVATION (FEET MSL)
- GROUNDWATER SURFACE CONTOUR (DASHED WHERE INFERRED)
- INFERRED GROUNDWATER FLOW DIRECTION

NOTE:

FIGURE DEPICTS THE POTENTIOMETRIC SURFACE IN THE DEEP (CONFINED) ZONE OF THE LOWER PATAPSCO AQUIFER.

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FIGURE 7

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POTENTIOMETRIC SURFACE CONTOUR MAP UNDER NON–PUMPING CONDITIONS, DEEP CONFINED ZONE OF THE LOWER PATAPSCO AQUIFER – NOVEMBER 2021

FORMER KOP–FLEX FACILITY SITE
HANOVER, MARYLAND

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REV	DESCRIPTION		
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2	Revised:	Chkd:	Appr.:
3	Revised:	Chkd:	Appr.:

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LEGEND

- PROPERTY LINE
- WATER MAIN
- STREAM
- WATER BODY
- CONFINED LOWER PATAPSCO AQUIFER MONITORING WELLS
- CONFINED LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER MONITORING WELLS
- POTENTIOMETRIC SURFACE CONTOUR (DASHED WHERE INFERRED)
- ND NOT DETECTED
- 76 1,1-DCE CONCENTRATION (ppb)
- INFERRED 1,1-DCE ISO-CONCENTRATION CONTOUR (ppb)
- INFERRED 1,1-DCE ISO-CONCENTRATION CONTOUR (ppb) CHARACTERIZED BY HIGHER UNCERTAINTY GIVEN LOCATIONS OF SAMPLING POINTS
- ≤ 7 TO 50
- 50 TO 100
- 100 TO 500
- 500 TO 1,000
- ≥ 1,000

B REFERENCE: BASE FEATURES; ROADS, PARCELS, BUILDINGS, WATER FEATURES FROM ANNE ARUNDEL COUNTY WEBSITE. http://www.aacounty.org/departments/planning-and-zoning/research-and-gis/gis/ UPDATED WITH FEB 2021 DATA.

0 800 1600
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FIGURE 8
INFERRED 1,1-DCE DISTRIBUTION IN DEEP CONFINED ZONE OF LOWER PATAPSCO AQUIFER (FALL 2021)

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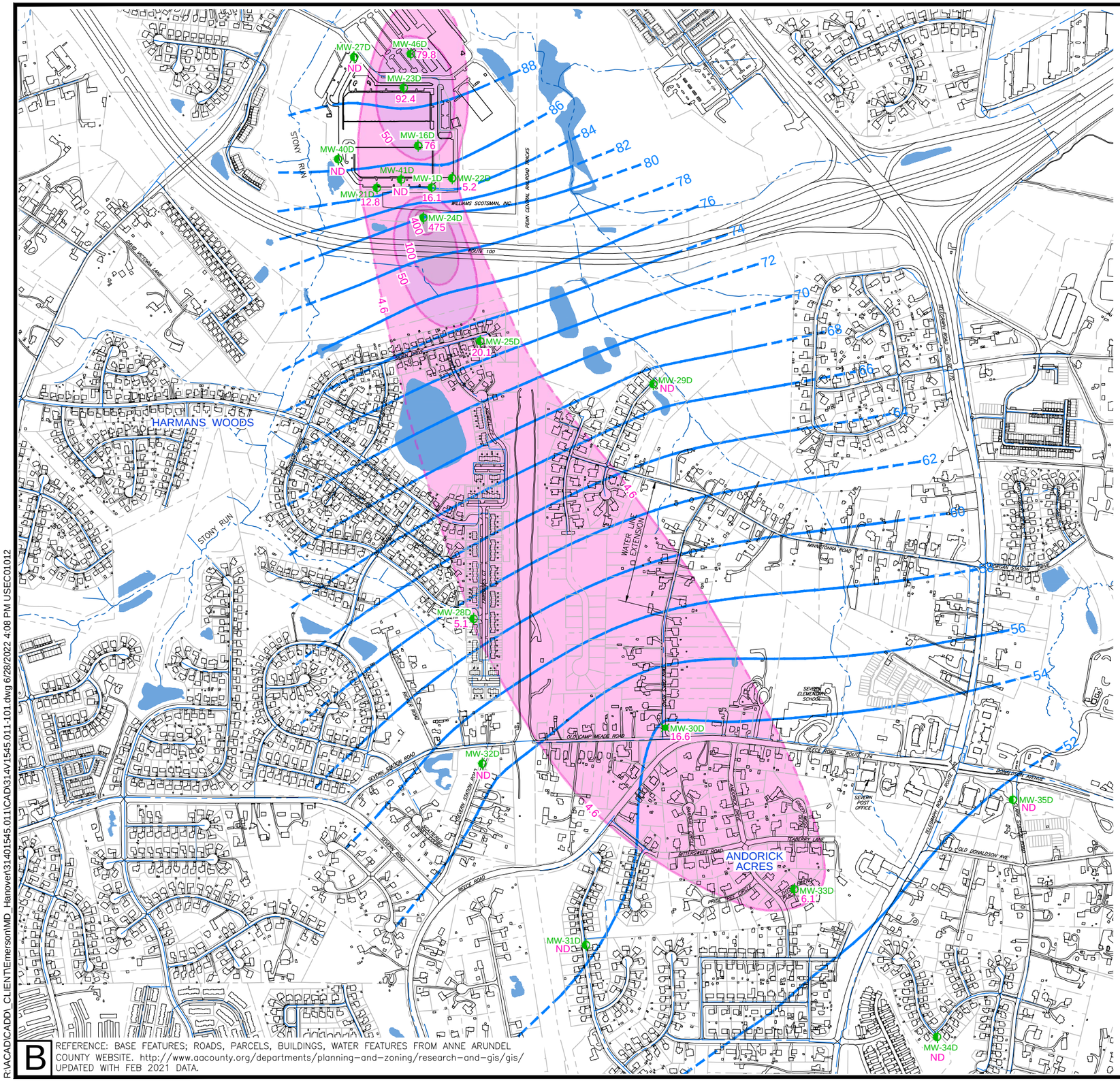

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LEGEND

- PROPERTY LINE
- WATER MAIN
- STREAM
- WATER BODY
- CONFINED LOWER PATAPSCO AQUIFER MONITORING WELLS
- CONFINED LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER MONITORING WELLS
- POTENTIOMETRIC SURFACE CONTOUR (DASHED WHERE INFERRED)
- ND NOT DETECTED
- 76 1,4–DIOXANE CONCENTRATION (ppb)
- INFERRED 1,4–DIOXANE ISO–CONCENTRATION CONTOUR (ppb)
- INFERRED 1,4–DIOXANE ISO–CONCENTRATION CONTOUR (ppb) CHARACTERIZED BY HIGHER UNCERTAINTY GIVEN LOCATIONS OF SAMPLING POINTS

- ≤ 7 TO 50
- 50 TO 100
- 100 TO 400
- ≥ 400

N

0 800 1600

SCALE IN FEET

B REFERENCE: BASE FEATURES; ROADS, PARCELS, BUILDINGS, WATER FEATURES FROM ANNE ARUNDEL COUNTY WEBSITE. http://www.aacounty.org/departments/planning–and–zoning/research–and–gis/gis/ UPDATED WITH FEB 2021 DATA.

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FIGURE 9
INFERRED 1,4–DIOXANE DISTRIBUTION IN DEEP CONFINED ZONE OF LOWER PATAPSCO AQUIFER (FALL 2021)

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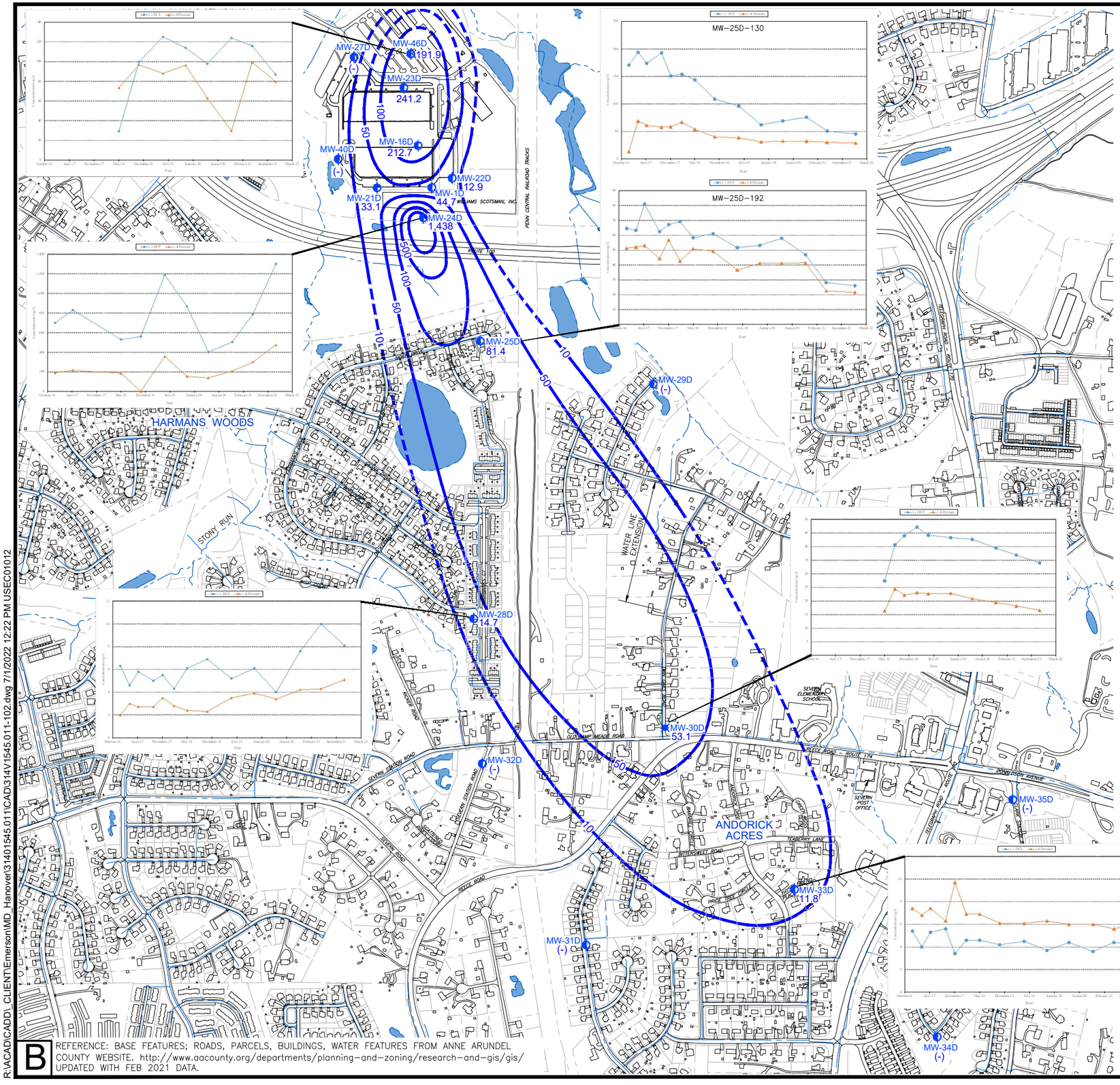

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LEGEND

- PROPERTY LINE
- WATER MAIN
- STREAM
- WATER BODY
- DEEP CONFINED ZONE LOWER PATAPSCO AQUIFER MONITORING WELLS
- DEEP CONFINED ZONE LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER MONITORING WELLS
- 81.4 TOTAL COC CONCENTRATION (ppb), FALL 2021
- (-) ALL COCs PRESENT AT CONCENTRATIONS BELOW THE METHOD DETECTION LIMITS

TOTAL COCs= [111-TCA]+[11-DCE]+[11-DCA]+[1,2-DCA]+[1,4-DIOXANE]

- TCA TRICHLOROETHANE
- DCE DICHLOROETHENE
- DCA DICHLOROETHANE
- [ ] CONCENTRATION (ppb)
- INFERRED TOTAL COC ISO-CONCENTRATION CONTOUR (ppb)
- INFERRED TOTAL COC ISO-CONCENTRATION CONTOUR (ppb) CHARACTERIZED BY HIGHER UNCERTAINTY GIVEN LOCATIONS OF SAMPLING POINTS

B REFERENCE: BASE FEATURES; ROADS, PARCELS, BUILDINGS, WATER FEATURES FROM ANNE ARUNDEL COUNTY WEBSITE. http://www.aacounty.org/departments/planning-and-zoning/research-and-gis/gis/ UPDATED WITH FEB 2021 DATA.

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FIGURE 10

TOTAL COC DISTRIBUTION IN THE DEEP ZONE OF THE LOWER PATAPSCO AQUIFER WITH CONCENTRATION vs. TIME PLOTS FOR PLUME MONITORING WELLS

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TABLES

Table 1

Construction Details for Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Well ID	Installation Date	Casing Type	Screen Type	TOC Elevation (feet AMSL)	Total Depth (feet BTOC)	Screen Length (feet)	Screen Interval Depth (ft-bgs)	Screen Interval Elevation (feet AMSL)
Shallow (Unconfined) Lower Patapsco Aquifer								
MW-25 (Abandoned August 2019)	07/30/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	130.6	40	10.0	30.0 - 40.0	100.60 - 90.60
MW-28 (Abandoned August 2019)	07/09/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	150.5	45	10.0	35.0 - 45.0	115.50 - 105.50
MW-45	03/12/17	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	126.7	38	10.0	28.0 - 38.0	98.72 - 88.72
Deep (Confined) Lower Patapsco Aquifer								
MW-24D	06/14/12	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	129.1	155	10.0	145.0 - 155.0	-15.90 - -25.90
MW-25D-130	06/27/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	130.5	130	10.0	120.0 - 130.0	10.50 - 0.50
MW-25D-192	06/25/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	130.5	192	10.0	182.0 - 192.0	-51.50 - -61.50
MW-28D	07/09/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	150.5	210	10.0	200.0 - 210.0	-49.50 - -59.50
MW-29D	03/09/18	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	131.9	151	10.0	141.0 - 151.0	-9.08 - -19.08
MW-30D-273	04/11/18	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	153.5	273	10.0	263.0 - 273.0	-109.46 - -119.46
MW-31D	08/04/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	162.5	280	10.0	270.0 - 280.0	-107.50 - -117.50
MW-32D	03/15/18	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	156.1	266	10.0	256.0 - 266.0	-99.86 - -109.86
MW-33D-236	07/21/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	178.6	236	10.0	226.0 - 236.0	-47.40 - -57.40
MW-33D-295	07/21/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	178.3	295	10.0	285.0 - 295.0	-106.70 - -116.70
MW-34D	04/19/18	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	183.9	425	10.0	415.0 - 425.0	-231.09 - -241.09
MW-35D	08/16/14	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	177.8	298	10.0	288.0 - 298.0	-110.20 - -120.20
MW-46D	04/26/18	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	124.77	116	10.0	106.0 - 116.0	18.77 - 8.77
Patuxent Aquifer								
MW-30D-413	04/09/18	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	153.1	413.00	10.0	403.0 - 413.0	-249.87 - -259.87
MW-36D	03/28/18	2.5" Sch.80 PVC	2.5" PVC, 0.020" slot size	158.7	360.00	10.0	350.0 - 360.0	-191.29 - -201.29

Notes:
a/ AMSL = above mean sea level; BTOC = below top of casing; ft-bgs = feet below ground surface.
PVC = polyvinyl chloride; Sch. = schedule

Table 2

Historical Groundwater Elevation Data - Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland

Well ID	Aquifer/Zone	TOC Elevation	3/17/2015		6/15/2015		9/21/2015		1/4/2016		3/21/2016	
			Depth to Water	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-25S *	Unconfined LPA	130.6	12.84	117.76	12.46	118.14	14.33	116.27	13.48	117.12	12.75	117.85
MW-28S *	Unconfined LPA	150.5	25.56	124.94	25.24	125.26	25.88	124.62	25.35	125.15	25.34	125.16
MW-45	Unconfined LPA	126.7	NM	-	NM	-	NM	-	NM	-	NM	-
MW-24D	Confined LPA	129.1	50.9	78.20	49.29	79.81	NM	-	NM	-	44.38	84.72
MW-25-130	Confined LPA	130.5	58.7	71.80	57.59	72.91	58.26	72.24	53.95	76.55	51.01	79.49
MW-25-192	Confined LPA	130.5	59.99	70.51	56.4	74.10	57.23	73.27	53.05	77.45	50.27	80.23
MW-28D	Confined LPA	150.5	93.06	57.44	89.36	61.14	90.34	60.16	84.62	65.88	80.72	69.78
MW-29D	Confined LPA	131.9	NM	-	NM	-	NM	-	NM	-	NM	-
MW-30D-273	Confined LPA	153.5	NM	-	NM	-	NM	-	NM	-	NM	-
MW-31D	Confined LPA	162.5	114.02	48.48	108.58	53.92	109.51	52.99	102.44	60.06	98.41	64.09
MW-32D	Confined LPA	156.1	NM	-	NM	-	NM	-	NM	-	NM	-
MW-33D-235	Confined LPA	178.6	131.83	46.77	125.66	52.94	127.11	51.49	119.14	59.46	115.25	63.35
MW-33D-295	Confined LPA	178.3	131.52	46.78	125.42	52.88	126.91	51.39	118.90	59.40	114.96	63.34
MW-34D	Confined LPA	183.9	NM	-	NM	-	NM	-	NM	-	NM	-
MW-35D	Confined LPA	177.8	132.01	45.79	126.28	51.52	127.89	49.91	118.96	58.84	114.34	63.46
MW-46D	Confined LPA	124.8	NM	-	NM	-	NM	-	NM	-	NM	-
MW-30D-413	Patuxent	153.1	NM	-	NM	-	NM	-	NM	-	NM	-
MW-36D	Patuxent	158.7	NM	-	NM	-	NM	-	NM	-	NM	-

Notes:
LPA = Lower Patapsco Aquifer
NM = Not Measured
TOC = Top of Casing
* Well abandoned in August 2019

Table 2

Historical Groundwater Elevation Data - Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland

Well ID	Aquifer/Zone	TOC Elevation	12/7/2016		5/1/2017		8/31/2017		11/14/2017		2/13/2018		5/31/2018	
			Depth to Water	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-25S *	Unconfined LPA	130.6	14.61	115.99	14.02	116.58	14.09	116.51	14.6	116.00	14.56	116.04	13.10	117.50
MW-28S *	Unconfined LPA	150.5	26.8	123.70	27.4	123.10	27.2	123.30	27.22	123.28	27.48	123.02	27.42	123.08
MW-45	Unconfined LPA	126.7	NM	-	13.67	113.05	NM	-	NM	-	NM	-	12.98	113.74
MW-24D	Confined LPA	129.1	46.3	82.80	48.35	80.75	48.35	80.75	51.99	77.11	NM		50.94	78.16
MW-25-130	Confined LPA	130.5	50.27	80.23	53.80	76.70	61.38	69.12	58.46	72.04	58.31	72.19	58.23	72.27
MW-25-192	Confined LPA	130.5	52.4	78.10	53.11	77.39	60.36	70.14	58.71	71.79	57.49	73.01	57.40	73.10
MW-28D	Confined LPA	150.5	83.35	67.15	82.72	67.78	94.55	55.95	89.03	61.47	67.37	83.13	88.75	61.75
MW-29D	Confined LPA	131.9	NM	-	NM	-	NM	-	NM	-	NM	-	64.94	66.98
MW-30D-273	Confined LPA	153.5	NM	-	NM	-	NM	-	NM	-	NM	-	98.66	54.88
MW-31D	Confined LPA	162.5	114.20	48.30	100.24	62.26	115.67	46.83	107.21	55.29	106.29	56.21	106.80	55.70
MW-32D	Confined LPA	156.1	NM	-	NM	-	NM	-	NM	-	NM	-	97.90	58.24
MW-33D-235	Confined LPA	178.6	114.2	64.40	117.26	61.34	133.39	45.21	124.55	54.05	123.79	54.81	124.00	54.60
MW-33D-295	Confined LPA	178.3	131.50	46.80	117.03	61.27	133.14	45.16	124.36	53.94	123.60	54.70	123.83	54.47
MW-34D	Confined LPA	183.9	NM	-	NM	-	NM	-	NM	-	NM	-	132.70	51.21
MW-35D	Confined LPA	177.8	131.91	45.89	117.28	60.52	133.55	44.25	125.59	52.21	124.02	53.78	124.27	53.53
MW-46D	Confined LPA	124.8	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-30D-413	Patuxent	153.1	NM	-	NM	-	NM	-	NM	-	NM	-	138.10	15.03
MW-36D	Patuxent	158.7	NM	-	NM	-	NM	-	NM	-	NM	-	141.75	16.96

Notes:
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* Well abandoned in August 2019

Table 2

Historical Groundwater Elevation Data - Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland

Well ID	Aquifer/Zone	TOC Elevation	8/23/2018		11/8/2018		2/19/2019		5/22/2019		8/6/2019		11/20/2019	
			Depth to Water	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-25S *	Unconfined LPA	130.6	NM	-	11.84	118.76	11.75	118.85	NM	-	NM	-	NM	-
MW-28S *	Unconfined LPA	150.5	NM	-	24.33	126.17	23.30	127.20	NM	-	NM	-	NM	-
MW-45	Unconfined LPA	126.7	NM	-	NM	-	11.98	114.74	11.75	114.97	NM	-	14.55	112.17
MW-24D	Confined LPA	129.1	NM	-	NM	-	48.92	80.18	49.67	79.43	52.37	76.73	51.12	77.98
MW-25-130	Confined LPA	130.5	59.53	70.97	58.75	71.75	54.96	75.54	56.23	74.27	60.79	69.71	59.94	70.56
MW-25-192	Confined LPA	130.5	58.69	71.81	57.63	72.87	54.20	76.30	55.45	75.05	60.37	70.13	59.02	71.48
MW-28D	Confined LPA	150.5	90.98	59.52	88.30	62.20	84.78	65.72	86.96	63.54	94.24	56.26	91.37	59.13
MW-29D	Confined LPA	131.9	66.56	65.36	65.03	66.89	60.64	71.28	62.36	69.56	67.20	64.72	67.10	64.82
MW-30D-273	Confined LPA	153.5	100.70	52.84	98.14	55.40	93.10	60.44	95.74	57.80	104.75	48.79	101.12	52.42
MW-31D	Confined LPA	162.5	109.95	52.55	106.27	56.23	102.47	60.03	104.91	57.59	113.35	49.15	110.14	52.36
MW-32D	Confined LPA	156.1	100.65	55.49	98.97	57.17	93.79	62.35	97.02	59.12	99.43	56.71	101.56	54.58
MW-33D-235	Confined LPA	178.6	127.52	51.08	125.14	53.46	119.35	59.25	121.72	56.88	132.76	45.84	127.87	50.73
MW-33D-295	Confined LPA	178.3	127.34	50.96	125.69	52.61	119.10	59.20	NM	NA	131.14	47.16	127.65	50.65
MW-34D	Confined LPA	183.9	136.42	47.49	131.76	52.15	127.40	56.51	129.93	53.98	141.48	42.43	136.62	47.29
MW-35D	Confined LPA	177.8	128.19	49.61	123.64	54.16	119.18	58.62	121.65	56.15	127.51	50.29	129.89	47.91
MW-46D	Confined LPA	124.8	NM	-	NM	-	NM	-	35.47	89.30	38.40	86.37	37.90	86.87
MW-30D-413	Patuxent	153.1	143.75	9.38	140.62	12.51	130.73	22.40	137.25	15.88	145.27	7.86	143.64	9.49
MW-36D	Patuxent	158.7	146.32	12.39	143.85	14.86	134.83	23.88	141.30	17.41	147.65	11.06	146.75	11.96

Notes:
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NM = Not Measured
TOC = Top of Casing
* Well abandoned in August 2019

Table 2

Historical Groundwater Elevation Data - Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland

Well ID	Aquifer/Zone	TOC Elevation	2/12/2020		5/14/2020		11/23/2020		5/10/2021		11/15/2021	
			Depth to Water	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*	*Depth to Water*	*Groundwater Elevation*
MW-25S *	Unconfined LPA	130.6	NM	-	NM	-	NM	-	NM	-	NM	-
MW-28S *	Unconfined LPA	150.5	NM	-	NM	-	NM	-	NM	-	NM	-
MW-45	Unconfined LPA	126.7	NM	-	NM	-	13.61	113.11	12.69	114.03	13.35	113.37
MW-24D	Confined LPA	129.1	50.10	79.00	48.80	80.30	53.02	76.08	50.01	79.09	49.40	79.70
MW-25-130	Confined LPA	130.5	55.55	74.95	54.95	75.55	60.50	70.00	56.11	74.39	NM	NA
MW-25-192	Confined LPA	130.5	54.70	75.80	54.23	76.27	59.50	71.00	55.32	75.18	NM	NA
MW-28D	Confined LPA	150.5	85.00	65.50	84.36	66.14	92.87	57.63	86.34	64.16	89.34	61.16
MW-29D	Confined LPA	131.9	61.28	70.64	60.61	71.31	67.75	64.17	62.15	69.77	64.82	67.10
MW-30D-273	Confined LPA	153.5	93.29	60.25	92.60	60.94	103.09	50.45	94.95	58.59	99.70	53.84
MW-31D	Confined LPA	162.5	102.73	59.77	NM	-	113.30	49.20	104.32	58.18	108.09	54.41
MW-32D	Confined LPA	156.1	92.35	63.79	94.31	61.83	103.76	52.38	95.58	60.56	99.72	56.42
MW-33D-235	Confined LPA	178.6	119.72	58.88	119.10	59.50	NM	-	121.30	0.00	125.35	0.00
MW-33D-295	Confined LPA	178.3	119.54	58.76	118.84	59.46	130.21	48.09	121.08	57.22	125.15	53.15
MW-34D	Confined LPA	183.9	127.75	56.16	127.01	56.90	139.08	44.83	129.41	54.50	133.82	50.09
MW-35D	Confined LPA	177.8	119.68	58.12	119.06	58.74	129.67	48.13	121.20	56.60	126.19	51.61
MW-46D	Confined LPA	124.8	36.13	88.64	35.73	89.04	37.72	87.05	35.95	88.82	35.62	89.15
MW-30D-413	Patuxent	153.1	128.12	25.01	127.25	25.88	142.22	10.91	134.60	18.53	140.69	12.44
MW-36D	Patuxent	158.7	132.11	26.60	131.08	27.63	145.25	13.46	137.95	20.76	143.70	15.01

Notes:
LPA = Lower Patapsco Aquifer
NM = Not Measured
TOC = Top of Casing
* Well abandoned in August 2019

Table 3

Hydrasleeve Depth Intervals
Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland

Well ID	Well Construction		Hydrasleeve Placement	
	Well Diameter	Screened Interval (ft-bgs)	HS Size	HS Interval Placement (ft-bgs)
Shallow (Unconfined) Lower Patapsco Aquifer				
MW-45	2	28 - 38	600 mL	32 - 34.5
Deep (Confined) Lower Patapsco Aquifer				
MW-24D	2	118 - 128	600 mL	122 - 124.5
MW-25D-130	2	120 - 130	600 mL	125 - 127.5
MW-25D-192	2	182 - 192	600 mL	185 - 187.5
MW-28D	2	200 - 210	600 mL	205 - 207.5
MW-29D	2	141 - 151	600 mL	146 - 148.5
MW-30D-273	2	263 - 273	600 mL	267 - 269.5
MW-31D	2	270 - 280	600 mL	275 - 277.5
MW-32D	2	226 - 236	600 mL	233 - 235.5
MW-33D-236	2	226 - 236	600 mL	230 - 232.5
MW-33D-295	2	285 - 295	600 mL	290 - 292.5
MW-34D	2	375 - 385	600 mL	379 - 381.5
MW-35D	2	288 - 298	600 mL	293 - 295.5
MW-46D	2	80 - 90	600 mL	84 - 86.5
Patuxent Aquifer				
MW-30D-413	2	403 - 413	600 mL	407 - 409.5
MW-36D	2	350 - 360	600 mL	357 - 359.5

ft-bgs = feet below ground surface
HS = hydrasleeve
mL = milliliters

Table 4

2021 Field Parameter Measurements
Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Well ID	Sample Date	Temperature (ºC)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)
Unconfined Lower Patapsco Aquifer Wells					
MW-45	5/10/2021	19.90	4.92	0.219	>1000
	11/15/2021	11.48	4.79	0.392	>1000
Confined Lower Patapsco Aquifer Wells					
MW-24D	5/10/2021	18.64	5.45	0.059	110
	11/15/2021	NM	NM	NM	NM
MW-25D-130	5/10/2021	NM	NM	NM	NM
	11/15/2021	NM	NM	NM	NM
MW-25D-192	5/10/2021	NM	NM	NM	NM
	11/15/2021	NM	NM	NM	NM
MW-28D	5/10/2021	17.49	4.95	0.100	52.9
	11/15/2021	14.54	5.51	0.112	230
MW-29D	5/10/2021	15.77	5.52	0.714	660
	11/15/2021	10.91	4.70	0.227	>1000
MW-30D-273	5/10/2021	14.47	5.74	0.019	153
	11/15/2021	11.13	4.56	0.028	173
MW-31D	5/10/2021	14.96	4.79	0.024	496
	11/15/2021	11.33	4.66	0.071	749
MW-32D	5/10/2021	15.52	5.17	2.370	84.5
	11/15/2021	12.82	5.19	0.11	230
MW-33D-235	5/10/2021	14.73	4.72	0.015	48.8
	11/15/2021	10.56	4.05	0.220	52.8
MW-33D-295	5/10/2021	14.97	5.34	0.001	136
	11/15/2021	11.05	4.00	0.032	812
MW-34D	5/10/2021	16.47	5.50	0.082	2.06
	11/15/2021	13.04	5.52	0.120	829
MW-35D	5/10/2021	18.89	4.98	0.090	49.4
	11/15/2021	14.05	3.01	0.138	1.6
MW-46D	5/9/2021	17.24	4.88	0.570	86
	11/14/2021	10.26	5.48	NM	202
Patuxent Aquifer Wells					
MW-36D	5/10/2021	17.93	4.71	0.010	50.7
	11/15/2021	12.65	5.34	0.018	40.6
MW-30D-413	5/10/2021	15.57	5.19	0.048	103
	11/15/2021	11.35	4.04	0.040	91.8

a/ ºC = degrees Celsius; SU = standard units; mS/cm = milli siemens per centimeter;
NTU = Nephelometric Turbidity Unit; NR = not recorded;
NM = Not measured due to insufficient water in HydraSleeve to collect readings.

Table 5

Historical Offsite Groundwater Sampling Results (2015 to Present)
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Well ID	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	1,4-Dioxane	Methylene Chloride	1,1,1-TCA	1,1,2-TCA	TCE
Groundwater Quality Standard (µg/L)		2.8 (c/)	5	7	70	4.6	5	200	5	5
Unconfined Lower Patapsco Aquifer Wells										
MW-25 (b)	3/19/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/24/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/23/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	3/23/2016	1.0 U	1.0 U	1.5	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/20/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	**11.7**	1.0 U	1.0 U	1.0 U
	2/13/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
MW-28 (b)	3/17/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/23/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/22/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/5/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	3/22/2016	1.0 U	1.0 U	6.2	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/19/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-45	3/24/2017	1.0 U	1.0 U	1.9	1.0 U	2.3	2.0 U	1.0 U	1.0 U	1.0 U
	6/28/2018	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2020	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
Confined Lower Patapsco Aquifer Wells										
MW-24D	6/1/2012	ND	ND	**1,300**	5.0 U	**342**	10.0 U	53	5.0 U	5.0 U
	8/27/2012	72	**13**	**1,600**	6	2.0 U	10.0 U	60	1.5	**13**
	12/14/2012	61	**12**	**1,500**	6.7	**393**	10.0 U	62	1.5	**16**
	7/18/2013	57.7	**10.8**	**1,520**	6.2	**470**	10.0 U	48.7	1.3	**12.4**
	12/13/2013	47.4	ND	**1,190**	5.0 U	**433**	10.0 U	34.1	5.0 U	**10.1**
	6/14/2014	57.3	**11.3**	**1,510**	5.0 U	**488**	10.0 U	43.4	5.0 U	**14.2**
	12/5/2014	**106**	ND	**2,640**	5.0 U	**657**	10.0 U	60.9	5.0 U	5.0 U
	6/15/2015	**92.5**	ND	**2,100**	5.0 U	**728**	10.0 U	53.3	5.0 U	5.0 U
	3/16/2016	68.2	ND	**1,280**	5.0 U	**452**	10.0 U	54.3	5.0 U	5.0 U
	12/8/2016	36.1	**5.2**	**701**	5.0 U	**192**	10.0 U	9.0	5.0 U	5.0 U
	5/2/2017	40.4	**5.6**	**830**	5.0 U	**216**	10.0 U	10.2	5.0 U	5.0 U
	5/30/2018	26.6	4.0 U	**529**	4.0 U	**187**	8.0 U	5.5	4.0 U	4.0 U
	11/7/2018	**29.8**	5.0 U	**560**	5.0 U	2.0 U	10.0 U	5.0 U	5.0 U	5.0 U
	5/22/2019	**66.2**	10.0 U	**1,190**	10.0 U	**359**	50.0 U	18	10.0 U	10.0 U
	11/19/2019	**54.5**	**6.6**	**868**	5.0 U	**155**	25.0 U	10	5.0 U	6.0 U
	5/12/2020	**25**	3.3	**402**	5.0 U	**139**	25.0 U	3.7	5.0 U	3.2
	11/23/2020	**73.5**	4.0 U	**505**	4.0 U	**208**	20.0 U	4.4	4.0 U	4.0 U
	5/10/2021	**151**	6.3	**788**	7.2	**299**	25.0 U	10.9	5.0 U	5.0 U
	11/15/2021	**142**	10.0 U	**1,300**	10.0 U	**475**	10.0 U	16.1	10.0 U	10.0 U
MW-25D-130	3/19/2015	38.6	**10.8**	**854**	10.0 U	**446**	200 U	**8,930**	100 U	100 U
	6/24/2015	37.1	**8.9**	**1,030**	4.6	**303**	2.0 U	46.3	1.2	**6.8**
	9/23/2015	29.7	10.0 U	**697**	10.0 U	**295**	20.0 U	32.3	10.0 U	**14.2**
	1/7/2016	33.4	**9.7**	**800**	5.0 U	**398**	10.0 U	5.0 U	5.0 U	**6.1**
	3/23/2016	24.5	**8.0**	**676**	5.0 U	**302**	10.0 U	26.2	5.0 U	**5.0**
	7/19/2016	39.3	**10.2**	**1,090**	4.9 J	**367**	14.3 J	37.0	10.0 U	**6.5** J
	9/9/2016	27.9	**6.4**	**661**	5.0 U	**241**	**12.0**	25.0	5.0 U	5.0 U
	12/8/2016	6.7	1.5	**171**	1.0 U	**13.6**	2.0 U	6.9	1.0 U	1.0 U
	2/21/2017	7.2	1.7	**194**	1.0 U	**69.1**	2.0 U	7.0	1.0 U	1.2
	5/2/2017	6.5	2.0 U	**174**	2.0 U	**61.0**	4.0 U	5.0	2.0 U	2.0 U
	8/31/2017	7.4	1.7	**193**	2.0 U	**57.9**	4.0 U	6.9	2.0 U	2.0 U
	11/14/2017	5.1	1.3	**151**	0.57 J	**58.5**	5.0 U	6.4	1.0 U	1.1
	2/13/2018	6.3	2.0 U	**154**	2.0 U	**67.1**	5.0 U	6.4	1.0 U	1.0 U
	5/30/2018	5.0	1.4	**144**	2.0 U	**53.9**	5.0 U	5.3	1.0 U	1.0 U
	11/8/2018	**4.4**	1.1	**109**	2.0 U	**40.2**	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	**3.7**	1.0 U	**96.2**	1.0 U	**38.4**	5.0 U	4.2	1.0 U	1.0 U
	11/19/2019	2.7	1.0 U	**62.1**	1.0 U	**31.0**	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	**3.3**	1.0 U	**69.1**	1.0 U	**32.6**	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	**3.3**	1.0 U	**76.0**	1.0 U	**32.4**	5.0 U	4.9	1.0 U	1.0 U
	5/10/2021	**3.0**	1.0 U	**50.8**	1.0 U	**30.2**	5.0 U	3.1	1.0 U	1.0 U
	12/29/2021	**3.0**	1.0 U	**45.5**	1.0 U	**29.1**	1.0 U	3.3	1.0 U	1.0 U
MW-25D-192	3/19/2015	11.7	1.0 U	**53.0**	1.0 U	**49.4**	2.0 U	13.7	1.0 U	1.0 U
	6/25/2015	11.9	1.0 U	**59.4**	1.0 U	**39.8**	2.0 U	14.2	1.0 U	1.0 U
	9/22/2015	13.9	1.0 U	**51.4**	1.0 U	**45.0**	2.0 U	12.9	1.0 U	1.3
	1/7/2016	11.7	1.0 U	**47.2**	1.0 U	**41.7**	2.0 U	12.5	1.0 U	1.0 U
	3/23/2016	10.3	1.0 U	**43.3**	1.0 U	**42.2**	2.0 U	11.3	1.0 U	1.0 U
	7/20/2016	11.7	0.73 J	**54.9**	1.0 U	**54.4**	2.0 U	11.1	1.0 U	1.0 U
	9/8/2016	12.9	1.0 U	**56.8**	1.0 U	**39.3**	2.0 U	12.6	1.0 U	1.0 U
	12/8/2016	16.1	1.0 U	**64.6**	1.0 U	**51.3**	2.0 U	13.3	1.0 U	1.0 U
	2/21/2017	14.0	1.0 U	**63.3**	1.0 U	**52.1**	2.0 U	11.6	1.0 U	1.0 U
	5/2/2017	16.9	1.0 U	**81.0**	1.0 U	**53.1**	2.0 U	13.5	1.0 U	1.0 U
	8/31/2017	15.7	1.0 U	**62.5**	1.0 U	**44.3**	2.0 U	13.1	1.0 U	1.0 U
	11/14/2017	13.6	0.67 J	**67.2**	1.0 U	**56.7**	5.0 U	13.6	1.0 U	1.0 U
	2/13/2018	13.7	1.0 U	**69.2**	1.0 U	**42.7**	5.0 U	11.0	1.0 U	1.0 U
	5/30/2018	10.8	1.0 U	**58.3**	1.0 U	**50.8**	5.0 U	7.2	1.0 U	1.0 U
	11/8/2018	**13.7**	1.0 U	**61.0**	1.0 U	**49.3**	5.0 U	9.8	1.0 U	1.0 U
	5/22/2019	**11.8**	1.0 U	**51.7**	1.0 U	**36.7**	5.0 U	8.5	1.0 U	1.0 U
	11/19/2019	**12.6**	1.0 U	**53.2**	1.0 U	**41.1**	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	**12.8**	1.0 U	**58.0**	1.0 U	**41.1**	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	**11.3**	1.0 U	**46.9**	1.0 U	**41.5**	5.0 U	5.8	1.0 U	1.0 U
	5/10/2021	**6.5**	1.0 U	**28.2**	1.0 U	**22.6**	5.0 U	3.2	1.0 U	1.0 U
	12/29/2021	**6.2**	1.0 U	**26.0**	1.0 U	**21.6**	5.0 U	3.4	1.0 U	1.0 U

Table 5

Historical Offsite Groundwater Sampling Results (2015 to Present)
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Well ID	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	1,4-Dioxane	Methylene Chloride	1,1,1-TCA	1,1,2-TCA	TCE
Groundwater Quality Standard (µg/L)		2.8 (c/)	5	7	70	4.6	5	200	5	5
Confined Lower Patapsco Aquifer Wells										
MW-28D	3/17/2015	1.0 U	1.0 U	**10.6**	1.0 U	**5.0**	2.0 U	1.0 U	1.0 U	1.0 U
	6/23/2015	1.0 U	1.0 U	**12.8**	1.0 U	4.5	2.0 U	1.0 U	1.0 U	1.0 U
	9/22/2015	1.0 U	1.0 U	**14.3**	1.0 U	4.4	2.0 U	1.0 U	1.0 U	1.0 U
	1/5/2016	1.0 U	1.0 U	**11.5**	1.0 U	**5.5**	2.0 U	1.0 U	1.0 U	1.0 U
	3/23/2016	1.0 U	1.0 U	**9.1**	1.0 U	4.0	2.0 U	1.0 U	1.0 U	1.0 U
	7/19/2016	1.0 U	0.25 J	**10.1**	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/7/2016	1.0 U	1.0 U	**12.0**	1.0 U	**5.0**	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	6.3	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	4.6	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	5.8	1.0 U	2.7	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	5.0	1.0 U	2.7	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	1.0 U	1.0 U	5.5	1.0 U	3.5	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	1.0 U	1.0 U	4.3	1.0 U	2.8	5.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	6.1	1.0 U	2.4	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	6.9	1.0 U	2.3	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	5.2	1.0 U	3.5	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	6.1	1.0 U	3.9	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	4.0	1.0 U	3.4	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	**7.6**	1.0 U	4.2	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	**10.0**	1.0 U	4.3	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	**8.1**	1.0 U	**5.1**	5.0 U	1.0 U	1.0 U	1.0 U
MW-29D	5/21/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1,0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-30D-273	5/31/2018	1.0 U	1.0 U	**27.4**	1.0 U	**16.4**	5.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0	1.0 U	**40.7**	1.0 U	**24.5**	5.0 U	1.7	1.0 U	1.0 U
	11/8/2018	1.2	1.0 U	**44.0**	1.0 U	**22.2**	5.0 U	2.1	1.0 U	1.0 U
	2/19/2019	1.1	1.0 U	**47.2**	1.0 U	**23.1**	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.1	1.0 U	**44.2**	1.0 U	**22.7**	5.0 U	2.0	1.0 U	1.0 U
	11/20/2019	1.1	1.0 U	**43.3**	1.0 U	**22.8**	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0	1.0 U	**42.7**	1.0 U	**20.9**	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0	1.0 U	**39.5**	1.0 U	**19.5**	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	**36.9**	1.0 U	**18.2**	5.0 U	1.5	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	**34.1**	1.0 U	**16.6**	5.0 U	1.4	1.0 U	1.0 U
MW-31D	3/17/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/24/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/22/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	3/21/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/19/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	6/2/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-32D	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-33D-235	3/18/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/23/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/21/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/4/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	3/21/2016	1.0 U	1.0 U	1.0 U	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U
	7/18/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	1.0 U	1.0 U	1.0 U	1.0 U	4.3	**12.0**	1.0 U	1.0 U	1.0 U
	2/13/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U

Table 5

Historical Offsite Groundwater Sampling Results (2015 to Present)
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Well ID	Sample Date	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	1,4-Dioxane	Methylene Chloride	1,1,1-TCA	1,1,2-TCA	TCE
Groundwater Quality Standard (µg/L)		2.8 (c/)	5	7	70	4.6	5	200	5	5
MW-33D-295	3/18/2015	1.0 U	1.0 U	4.6	1.0 U	**8.0**	2.0 U	1.0 U	1.0 U	1.0 U
	6/23/2015	1.0 U	1.0 U	3.3	1.0 U	**6.8**	2.0 U	1.0 U	1.0 U	1.0 U
	9/21/2015	1.0 U	1.0 U	4.8	1.0 U	**6.8**	2.0 U	1.0 U	1.0 U	1.0 U
	1/4/2016	1.0 U	1.0 U	3.7	1.0 U	**7.6**	2.0 U	1.0 U	1.0 U	1.0 U
	3/21/2016	1.0 U	1.0 U	3.9	1.0 U	**7.8**	2.0 U	1.0 U	1.0 U	1.0 U
	7/18/2016	1.0 U	0.36 J	3.2	1.0 U	**5.1**	2.0 U	1.0 U	1.0 U	1.0 U
	9/7/2016	1.0 U	1.0 U	3.8	1.0 U	**7.4**	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	5.4	1.0 U	**7.4**	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	4.0	1.0 U	**6.8**	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	5.3	1.0 U	**7.4**	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	5.6	1.0 U	**6.3**	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	1.0 U	1.0 U	3.4	1.0 U	**9.7**	**11.5**	0.49 J	1.0 U	1.0 U
	2/13/2018	1.0 U	1.0 U	4.6	1.0 U	**6.9**	2.0 U	0.49 J	1.0 U	1.0 U
	5/31/2018	1.0 U	1.0 U	4.6	1.0 U	**6.9**	2.0 U	0.49 J	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	4.2	1.0 U	**6.1**	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	4.5	1.0 U	**6.1**	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	3.7	1.0 U	**6.3**	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	4.4	1.0 U	**6.0**	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	3.6	1.0 U	**6.0**	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	4.4	1.0 U	**5.6**	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	4.2	1.0 U	**6.1**	5.0 U	1.0 U	1.0 U	1.0 U
MW-34D	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-35D	3/18/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	6/22/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/21/2015	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	1/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	4/15/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	7/18/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	9/6/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/21/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/31/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/14/2017	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	2/14/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-46D	5/30/2018	13.7	1.0 U	**29.4**	1.0 U	**73.5**	2.0 U	1.2	1.0 U	1.0 U
	11/7/2018	**22.1**	1.2	**99.6**	1.0 U	**96.7**	2.0 U	7.7	1.0 U	1.0 U
	5/21/2019	**26.1**	1.0	**125**	1.0 U	**88.0**	5.0 U	10.2	1.0 U	1.0 U
	11/19/2019	**23.4**	1.4	**114**	1.0	**96.3**	5.0 U	1.0 U	1.0 U	1.0 U
	5/12/2020	**20.7**	1.4	**98**	1.0	**63.0**	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	**18.4**	1.0 U	**124**	1.0 U	**29.8**	5.0 U	6.4	1.0 U	1.0 U
	5/9/2021	**25.7**	1.5	**116**	1.0 U	**99.3**	5.0	7.8	1.0 U	1.0 U
	11/14/2021	**19.9**	1.0 U	**87**	1.0 U	**79.8**	5.0 U	4.8	1.0 U	1.0 U
Patuxent Aquifer Wells										
MW-36D	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
MW-30D-413	5/31/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	8/23/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	11/8/2018	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	2/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/20/2019	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/14/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/23/2020	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	5/10/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U

a/ All sample concentrations are in micrograms per liter (µg/l).
b/ Well abandoned August 2019
c/ MDE GW Quality Standard changed from 90 µg/l to 2.8 µg/l in October 2018
DCA = dichloroethane; DCE = dichloroethene; TCA = trichloroethane; TCE = trichlorothene
U = not detected above the method detection limit; J = estimated concentration between the reporting limit and method detection limit.
Bolded values indicate an exceedence of the Groundwater Quality Standards

Table 6

Groundwater Sample Trend Evaluation
Former Kop-Flex Facility
Hanover, Maryland (a)

Well ID	1,1-DCA	1,2-DCA	1,1-DCE	1,4-Dioxane	1,1,1-TCA
	Trend	Trend	Trend	Trend	Trend
Unconfined Lower Patapsco Aquifer Wells					
MW-25 (b)	NA	NA	NA	NA	NA
MW-28 (b)	NA	NA	NA	NA	NA
MW-45	NA	NA	NA	NA	NA
Confined Lower Patapsco Aquifer Wells					
MW-24D	**Increasing**	**Stable**	**No Trend**	**No Trend**	**No Trend**
MW-25D-130	**Decreasing**	NA	**Decreasing**	**Decreasing**	**Decreasing**
MW-25D-192	**Decreasing**	NA	**Decreasing**	**Decreasing**	**Decreasing**
MW-28D	NA	NA	**Prob. Increasing**	**Increasing**	NA
MW-29D	NA	NA	NA	NA	NA
MW-30D-273	**Stable**	NA	**Stable**	**Prob. Decreasing**	**Stable**
MW-31D	NA	NA	NA	NA	NA
MW-32D	NA	NA	NA	NA	NA
MW-33D-235	NA	NA	NA	NA	NA
MW-33D-295	NA	NA	**Decreasing**	**Decreasing**	NA
MW-34D	NA	NA	NA	NA	NA
MW-35D	NA	NA	NA	NA	NA
MW-46D	**Stable**	**No Trend**	**No Trend**	**Stable**	**No Trend**
Patuxent Aquifer Wells					
MW-36D	NA	NA	NA	NA	NA
MW-30D-413	NA	NA	NA	NA	NA

Orange shading indicates increasing (c) or probably increasing (d) trend
Green shading indicates decreasing (c) or probably decreasing (d) trend

a/ Mann-Kendall statistical evaluation conducted on VOCs with equal to or greater than 50% detection at individual monitoring wells with 4 or more sample results;
NA = trend analysis not performed; more than 50% of the samples had non-detect concentrations.
1,1-DCE = 1,1-dichloroethene; 1,2-DCA= 1,2-dichloroethane; 1,1,1-TCA = 1,1,1-trichloroethane; Prob. = probably;
VOCs = volatile organic compounds.

b/ Well abandoned in August 2019.

c/ The degree of confidence is greater than 95% for an increasing or decreasing trend.

d/ The degree of confidence is greater than or equal to 90% but less than or equal to 95% for a probably increasing or probably decreasing trend.

APPENDIX

A 2021 LABORATORY ANALYTICAL REPORTS

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

May 18, 2021

Eric Johnson
WSP USA
13530 Dulles Technology Drive
Suite 300
Herndon, VA 20171

RE: Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP
Pam Robertson, WSP USA

Pace Analytical Services, LLC
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CERTIFICATIONS

Project:	Former Kop-Flex Facility Site
Pace Project No.:	92537966

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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92537966001	**MW-46D**	Water	05/09/21 17:30	05/11/21 11:40
92537966002	**MW-35D**	Water	05/10/21 08:50	05/11/21 11:40
92537966003	**MW-34D**	Water	05/10/21 09:25	05/11/21 11:40
92537966004	**MW-31D**	Water	05/10/21 09:45	05/11/21 11:40
92537966005	**MW-33D-295**	Water	05/10/21 10:15	05/11/21 11:40
92537966006	**MW-33D-235**	Water	05/10/21 10:25	05/11/21 11:40
92537966007	**MW-29D**	Water	05/10/21 10:50	05/11/21 11:40
92537966008	**MW-30D-413**	Water	05/10/21 11:05	05/11/21 11:40
92537966009	**MW-30D-273**	Water	05/10/21 11:15	05/11/21 11:40
92537966010	**MW-32D**	Water	05/10/21 11:35	05/11/21 11:40
92537966011	**MW-28D**	Water	05/10/21 12:35	05/11/21 11:40
92537966012	**MW-36D**	Water	05/10/21 12:45	05/11/21 11:40
92537966013	**MW-25D-130**	Water	05/10/21 13:10	05/11/21 11:40
92537966014	**MW-25D-190**	Water	05/10/21 13:20	05/11/21 11:40
92537966015	**DUP-20210510**	Water	05/10/21 09:00	05/11/21 11:40
92537966016	**TRIP BLANK B**	Water	05/10/21 00:00	05/11/21 11:40
92537966017	**MW-24D**	Water	05/10/21 13:55	05/11/21 11:40
92537966018	**MW-45**	Water	05/10/21 14:15	05/11/21 11:40

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SAMPLE ANALYTE COUNT

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92537966001	MW-46D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966002	MW-35D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966003	MW-34D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966004	MW-31D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966005	MW-33D-295	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966006	MW-33D-235	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966007	MW-29D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966008	MW-30D-413	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966009	MW-30D-273	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966010	MW-32D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966011	MW-28D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966012	MW-36D	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966013	MW-25D-130	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966014	MW-25D-190	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966015	DUP-20210510	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966016	TRIP BLANK B	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966017	MW-24D	EPA 8260D	BSH	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92537966018	MW-45	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

PASI-C = Pace Analytical Services - Charlotte

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-46D **Lab ID: 92537966001** Collected: 05/09/21 17:30 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 19:05	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 19:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 19:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 19:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 19:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 19:05	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 19:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 19:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 19:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 19:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 19:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 19:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 19:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 19:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 19:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 19:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 19:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 19:05	75-71-8	
1,1-Dichloroethane	**25.7**	ug/L	1.0	1		05/12/21 19:05	75-34-3	
1,2-Dichloroethane	**1.5**	ug/L	1.0	1		05/12/21 19:05	107-06-2	
1,1-Dichloroethene	**116**	ug/L	1.0	1		05/12/21 19:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 19:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 19:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 19:05	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 19:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 19:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 19:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 19:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 19:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 19:05	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 19:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:05	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-46D **Lab ID: 92537966001** Collected: 05/09/21 17:30 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 19:05	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 19:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:05	120-82-1	
1,1,1-Trichloroethane	**7.8**	ug/L	1.0	1		05/12/21 19:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 19:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 19:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 19:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 19:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 19:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 19:05	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 19:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 19:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 19:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 19:05	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		05/12/21 19:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/12/21 19:05	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**99.3**	ug/L	2.0	1		05/11/21 17:05	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		05/11/21 17:05	17060-07-0	
Toluene-d8 (S)	112	%	66-133	1		05/11/21 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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-35D **Lab ID: 92537966002** Collected: 05/10/21 08:50 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 19:23	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 19:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 19:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 19:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 19:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 19:23	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 19:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 19:23	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 19:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 19:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 19:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 19:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 19:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 19:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 19:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 19:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 19:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 19:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 19:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 19:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:23	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 19:23	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 19:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 19:23	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 19:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 19:23	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 19:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 19:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 19:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 19:23	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 19:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:23	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-35D **Lab ID: 92537966002** Collected: 05/10/21 08:50 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 19:23	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 19:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 19:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 19:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 19:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 19:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 19:23	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 19:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 19:23	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 19:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 19:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 19:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 19:23	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		05/12/21 19:23	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 19:23	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 17:24	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		05/11/21 17:24	17060-07-0	
Toluene-d8 (S)	111	%	66-133	1		05/11/21 17:24	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-34D **Lab ID: 92537966003** Collected: 05/10/21 09:25 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 19:41	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 19:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 19:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 19:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 19:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 19:41	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 19:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 19:41	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 19:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 19:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 19:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 19:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 19:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 19:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 19:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 19:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 19:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 19:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 19:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 19:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 19:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 19:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 19:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 19:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 19:41	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 19:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 19:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 19:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 19:41	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 19:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:41	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-34D **Lab ID: 92537966003** Collected: 05/10/21 09:25 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 19:41	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 19:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 19:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 19:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 19:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 19:41	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 19:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 19:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 19:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 19:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 19:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		05/12/21 19:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 19:41	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 17:42	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		05/11/21 17:42	17060-07-0	
Toluene-d8 (S)	108	%	66-133	1		05/11/21 17:42	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-31D **Lab ID: 92537966004** Collected: 05/10/21 09:45 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 19:59	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 19:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 19:59	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 19:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 19:59	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 19:59	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 19:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 19:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 19:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 19:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 19:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 19:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 19:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 19:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 19:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 19:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 19:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 19:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 19:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 19:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 19:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 19:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 19:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 19:59	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 19:59	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 19:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 19:59	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 19:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 19:59	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 19:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 19:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 19:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 19:59	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 19:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 19:59	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-31D **Lab ID: 92537966004** Collected: 05/10/21 09:45 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 19:59	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 19:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 19:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 19:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 19:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 19:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 19:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 19:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 19:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 19:59	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 19:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 19:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 19:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/12/21 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 19:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 19:59	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 18:01	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		05/11/21 18:01	17060-07-0	
Toluene-d8 (S)	112	%	66-133	1		05/11/21 18:01	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-33D-295 **Lab ID: 92537966005** Collected: 05/10/21 10:15 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 20:17	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 20:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 20:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 20:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 20:17	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 20:17	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 20:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 20:17	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 20:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 20:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 20:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 20:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 20:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 20:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 20:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 20:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 20:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 20:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 20:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 20:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 20:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 20:17	107-06-2	
1,1-Dichloroethene	**4.4**	ug/L	1.0	1		05/12/21 20:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:17	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 20:17	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 20:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 20:17	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 20:17	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 20:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 20:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 20:17	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 20:17	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 20:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 20:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 20:17	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-33D-295 **Lab ID: 92537966005** Collected: 05/10/21 10:15 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 20:17	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 20:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 20:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 20:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 20:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 20:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 20:17	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 20:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 20:17	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 20:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 20:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 20:17	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 20:17	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 20:17	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 20:17	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**5.6**	ug/L	2.0	1		05/11/21 18:20	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		05/11/21 18:20	17060-07-0	
Toluene-d8 (S)	110	%	66-133	1		05/11/21 18:20	2037-26-5	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-33D-235 **Lab ID: 92537966006** Collected: 05/10/21 10:25 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 20:35	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 20:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 20:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 20:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 20:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 20:35	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 20:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 20:35	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 20:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 20:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 20:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 20:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 20:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 20:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 20:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 20:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 20:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 20:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 20:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 20:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 20:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 20:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:35	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 20:35	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 20:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 20:35	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 20:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 20:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 20:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 20:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 20:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 20:35	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 20:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 20:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 20:35	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-33D-235 **Lab ID: 92537966006** Collected: 05/10/21 10:25 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 20:35	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 20:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 20:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 20:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 20:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 20:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 20:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 20:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 20:35	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 20:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 20:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 20:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 20:35	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 20:35	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 20:35	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 18:39	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		05/11/21 18:39	17060-07-0	
Toluene-d8 (S)	110	%	66-133	1		05/11/21 18:39	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-29D **Lab ID: 92537966007** Collected: 05/10/21 10:50 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 20:53	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 20:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 20:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 20:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 20:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 20:53	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 20:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 20:53	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 20:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 20:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 20:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 20:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 20:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 20:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 20:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 20:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 20:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 20:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 20:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 20:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 20:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 20:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 20:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 20:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 20:53	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 20:53	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 20:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 20:53	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 20:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 20:53	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 20:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 20:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 20:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 20:53	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 20:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 20:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 20:53	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-29D **Lab ID: 92537966007** Collected: 05/10/21 10:50 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 20:53	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 20:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 20:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 20:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 20:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 20:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 20:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 20:53	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 20:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 20:53	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 20:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 20:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 20:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 20:53	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		05/12/21 20:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 20:53	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 18:58	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		05/11/21 18:58	17060-07-0	
Toluene-d8 (S)	110	%	66-133	1		05/11/21 18:58	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-30D-413 **Lab ID: 92537966008** Collected: 05/10/21 11:05 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 21:11	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 21:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 21:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 21:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 21:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 21:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 21:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 21:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 21:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 21:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 21:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 21:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 21:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 21:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 21:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 21:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 21:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 21:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 21:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 21:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 21:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 21:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 21:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 21:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 21:11	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 21:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 21:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 21:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 21:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 21:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 21:11	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 21:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 21:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 21:11	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-30D-413 **Lab ID: 92537966008** Collected: 05/10/21 11:05 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 21:11	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 21:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 21:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 21:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 21:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 21:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 21:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 21:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 21:11	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 21:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 21:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 21:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 21:11	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		05/12/21 21:11	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 21:11	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 19:17	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		05/11/21 19:17	17060-07-0	
Toluene-d8 (S)	110	%	66-133	1		05/11/21 19:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-30D-273 **Lab ID: 92537966009** Collected: 05/10/21 11:15 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 21:29	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 21:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 21:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 21:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 21:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 21:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 21:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 21:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 21:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 21:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 21:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 21:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 21:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 21:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 21:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 21:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 21:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 21:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 21:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 21:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 21:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 21:29	107-06-2	
1,1-Dichloroethene	**36.9**	ug/L	1.0	1		05/12/21 21:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 21:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 21:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 21:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 21:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 21:29	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 21:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 21:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 21:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 21:29	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 21:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 21:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 21:29	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-30D-273 **Lab ID: 92537966009** Collected: 05/10/21 11:15 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 21:29	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 21:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:29	120-82-1	
1,1,1-Trichloroethane	**1.5**	ug/L	1.0	1		05/12/21 21:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 21:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 21:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 21:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 21:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 21:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 21:29	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 21:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 21:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 21:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		05/12/21 21:29	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 21:29	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 21:29	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**18.2**	ug/L	2.0	1		05/11/21 19:36	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		05/11/21 19:36	17060-07-0	
Toluene-d8 (S)	109	%	66-133	1		05/11/21 19:36	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-32D **Lab ID: 92537966010** Collected: 05/10/21 11:35 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 21:47	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 21:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 21:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 21:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 21:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 21:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 21:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 21:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 21:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 21:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 21:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 21:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 21:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 21:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 21:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 21:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 21:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 21:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 21:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 21:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 21:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 21:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 21:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 21:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 21:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 21:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 21:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 21:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 21:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 21:47	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 21:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 21:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 21:47	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 21:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 21:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 21:47	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-32D **Lab ID: 92537966010** Collected: 05/10/21 11:35 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 21:47	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 21:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 21:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 21:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 21:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 21:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 21:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 21:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 21:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 21:47	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 21:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 21:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 21:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 21:47	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 21:47	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/12/21 21:47	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 19:55	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		05/11/21 19:55	17060-07-0	
Toluene-d8 (S)	110	%	66-133	1		05/11/21 19:55	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-28D **Lab ID: 92537966011** Collected: 05/10/21 12:35 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 22:05	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 22:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 22:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 22:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 22:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 22:05	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 22:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 22:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 22:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 22:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 22:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 22:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 22:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 22:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 22:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 22:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 22:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 22:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:05	107-06-2	
1,1-Dichloroethene	**10.0**	ug/L	1.0	1		05/12/21 22:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 22:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 22:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 22:05	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 22:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 22:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 22:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 22:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 22:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 22:05	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 22:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:05	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-28D **Lab ID: 92537966011** Collected: 05/10/21 12:35 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 22:05	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 22:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 22:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 22:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 22:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 22:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 22:05	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 22:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 22:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 22:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 22:05	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/12/21 22:05	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		05/12/21 22:05	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**4.3**	ug/L	2.0	1		05/11/21 20:13	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		05/11/21 20:13	17060-07-0	
Toluene-d8 (S)	109	%	66-133	1		05/11/21 20:13	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-36D **Lab ID: 92537966012** Collected: 05/10/21 12:45 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/12/21 22:23	67-64-1	
Benzene	ND	ug/L	1.0	1		05/12/21 22:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/12/21 22:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/12/21 22:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/12/21 22:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/12/21 22:23	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/12/21 22:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/12/21 22:23	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/12/21 22:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/12/21 22:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/12/21 22:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/12/21 22:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/12/21 22:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/12/21 22:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/12/21 22:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/12/21 22:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/12/21 22:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/12/21 22:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/12/21 22:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/12/21 22:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/12/21 22:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/12/21 22:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/12/21 22:23	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/12/21 22:23	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/12/21 22:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/12/21 22:23	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/12/21 22:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/12/21 22:23	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/12/21 22:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/12/21 22:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/12/21 22:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/12/21 22:23	91-20-3	
Styrene	ND	ug/L	1.0	1		05/12/21 22:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/12/21 22:23	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-36D **Lab ID: 92537966012** Collected: 05/10/21 12:45 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/12/21 22:23	127-18-4	
Toluene	ND	ug/L	1.0	1		05/12/21 22:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/12/21 22:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/12/21 22:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/12/21 22:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/12/21 22:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/12/21 22:23	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/12/21 22:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/12/21 22:23	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/12/21 22:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/12/21 22:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/12/21 22:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		05/12/21 22:23	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/12/21 22:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		05/12/21 22:23	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 20:32	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		05/11/21 20:32	17060-07-0	
Toluene-d8 (S)	108	%	66-133	1		05/11/21 20:32	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-25D-130 **Lab ID: 92537966013** Collected: 05/10/21 13:10 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/11/21 21:59	67-64-1	
Benzene	ND	ug/L	1.0	1		05/11/21 21:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/11/21 21:59	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/11/21 21:59	74-97-5	IK
Bromodichloromethane	ND	ug/L	1.0	1		05/11/21 21:59	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/11/21 21:59	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/11/21 21:59	74-83-9	IH,v1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/11/21 21:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/11/21 21:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/11/21 21:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/11/21 21:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/11/21 21:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/11/21 21:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/11/21 21:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/11/21 21:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/11/21 21:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/11/21 21:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/11/21 21:59	75-71-8	
1,1-Dichloroethane	**3.0**	ug/L	1.0	1		05/11/21 21:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/11/21 21:59	107-06-2	
1,1-Dichloroethene	**50.8**	ug/L	1.0	1		05/11/21 21:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:59	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/11/21 21:59	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/11/21 21:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/11/21 21:59	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/11/21 21:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/11/21 21:59	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/11/21 21:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/11/21 21:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/11/21 21:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/11/21 21:59	91-20-3	
Styrene	ND	ug/L	1.0	1		05/11/21 21:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:59	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-25D-130 **Lab ID: 92537966013** Collected: 05/10/21 13:10 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/11/21 21:59	127-18-4	
Toluene	ND	ug/L	1.0	1		05/11/21 21:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:59	120-82-1	
1,1,1-Trichloroethane	**3.1**	ug/L	1.0	1		05/11/21 21:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/11/21 21:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/11/21 21:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/11/21 21:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/11/21 21:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/11/21 21:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/11/21 21:59	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/11/21 21:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/11/21 21:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/11/21 21:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		05/11/21 21:59	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1		05/11/21 21:59	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		05/11/21 21:59	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**30.2**	ug/L	2.0	1		05/11/21 20:51	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		05/11/21 20:51	17060-07-0	
Toluene-d8 (S)	110	%	66-133	1		05/11/21 20:51	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-25D-190 **Lab ID: 92537966014** Collected: 05/10/21 13:20 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/11/21 21:41	67-64-1	R1
Benzene	ND	ug/L	1.0	1		05/11/21 21:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/11/21 21:41	108-86-1	R1
Bromochloromethane	ND	ug/L	1.0	1		05/11/21 21:41	74-97-5	IK,R1
Bromodichloromethane	ND	ug/L	1.0	1		05/11/21 21:41	75-27-4	R1
Bromoform	ND	ug/L	1.0	1		05/11/21 21:41	75-25-2	R1
Bromomethane	ND	ug/L	2.0	1		05/11/21 21:41	74-83-9	IH,v1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/11/21 21:41	78-93-3	R1
Carbon tetrachloride	ND	ug/L	1.0	1		05/11/21 21:41	56-23-5	R1
Chlorobenzene	ND	ug/L	1.0	1		05/11/21 21:41	108-90-7	R1
Chloroethane	ND	ug/L	1.0	1		05/11/21 21:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/11/21 21:41	67-66-3	R1
Chloromethane	ND	ug/L	1.0	1		05/11/21 21:41	74-87-3	R1
2-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:41	95-49-8	R1
4-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:41	106-43-4	R1
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/11/21 21:41	96-12-8	R1
Dibromochloromethane	ND	ug/L	1.0	1		05/11/21 21:41	124-48-1	R1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/11/21 21:41	106-93-4	R1
Dibromomethane	ND	ug/L	1.0	1		05/11/21 21:41	74-95-3	R1
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:41	95-50-1	R1
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:41	541-73-1	R1
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:41	106-46-7	R1
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/11/21 21:41	75-71-8	R1
1,1-Dichloroethane	**6.5**	ug/L	1.0	1		05/11/21 21:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/11/21 21:41	107-06-2	R1
1,1-Dichloroethene	**28.2**	ug/L	1.0	1		05/11/21 21:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:41	156-59-2	R1
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:41	156-60-5	R1
1,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:41	78-87-5	R1
1,3-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:41	142-28-9	R1
2,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:41	594-20-7	R1
1,1-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:41	563-58-6	R1
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:41	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:41	10061-02-6	R1
Diisopropyl ether	ND	ug/L	1.0	1		05/11/21 21:41	108-20-3	R1
Ethylbenzene	ND	ug/L	1.0	1		05/11/21 21:41	100-41-4	R1
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/11/21 21:41	87-68-3	R1
2-Hexanone	ND	ug/L	5.0	1		05/11/21 21:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/11/21 21:41	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/11/21 21:41	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/11/21 21:41	108-10-1	R1
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/11/21 21:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/11/21 21:41	91-20-3	R1
Styrene	ND	ug/L	1.0	1		05/11/21 21:41	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:41	630-20-6	R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:41	79-34-5	R1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-25D-190 **Lab ID: 92537966014** Collected: 05/10/21 13:20 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/11/21 21:41	127-18-4	R1
Toluene	ND	ug/L	1.0	1		05/11/21 21:41	108-88-3	R1
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:41	87-61-6	R1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:41	120-82-1	R1
1,1,1-Trichloroethane	**3.2**	ug/L	1.0	1		05/11/21 21:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/11/21 21:41	79-00-5	R1
Trichloroethene	ND	ug/L	1.0	1		05/11/21 21:41	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	1.0	1		05/11/21 21:41	75-69-4	R1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/11/21 21:41	96-18-4	R1
Vinyl acetate	ND	ug/L	2.0	1		05/11/21 21:41	108-05-4	R1
Vinyl chloride	ND	ug/L	1.0	1		05/11/21 21:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/11/21 21:41	1330-20-7	RS
m&p-Xylene	ND	ug/L	2.0	1		05/11/21 21:41	179601-23-1	R1
o-Xylene	ND	ug/L	1.0	1		05/11/21 21:41	95-47-6	R1
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		05/11/21 21:41	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		05/11/21 21:41	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		05/11/21 21:41	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**22.6**	ug/L	2.0	1		05/11/21 21:10	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		05/11/21 21:10	17060-07-0	
Toluene-d8 (S)	107	%	66-133	1		05/11/21 21:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: DUP-20210510 **Lab ID: 92537966015** Collected: 05/10/21 09:00 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/11/21 21:23	67-64-1	
Benzene	ND	ug/L	1.0	1		05/11/21 21:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/11/21 21:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/11/21 21:23	74-97-5	IK
Bromodichloromethane	ND	ug/L	1.0	1		05/11/21 21:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/11/21 21:23	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/11/21 21:23	74-83-9	IH,v1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/11/21 21:23	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/11/21 21:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/11/21 21:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/11/21 21:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/11/21 21:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/11/21 21:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/11/21 21:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/11/21 21:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/11/21 21:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/11/21 21:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/11/21 21:23	75-71-8	
1,1-Dichloroethane	**3.0**	ug/L	1.0	1		05/11/21 21:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/11/21 21:23	107-06-2	
1,1-Dichloroethene	**49.2**	ug/L	1.0	1		05/11/21 21:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:23	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/11/21 21:23	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/11/21 21:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/11/21 21:23	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/11/21 21:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/11/21 21:23	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/11/21 21:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/11/21 21:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/11/21 21:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/11/21 21:23	91-20-3	
Styrene	ND	ug/L	1.0	1		05/11/21 21:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:23	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: DUP-20210510 **Lab ID: 92537966015** Collected: 05/10/21 09:00 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/11/21 21:23	127-18-4	
Toluene	ND	ug/L	1.0	1		05/11/21 21:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:23	120-82-1	
1,1,1-Trichloroethane	**2.9**	ug/L	1.0	1		05/11/21 21:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/11/21 21:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/11/21 21:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/11/21 21:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/11/21 21:23	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/11/21 21:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/11/21 21:23	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/11/21 21:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/11/21 21:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/11/21 21:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		05/11/21 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130	1		05/11/21 21:23	17060-07-0	
Toluene-d8 (S)	111	%	70-130	1		05/11/21 21:23	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**28.3**	ug/L	2.0	1		05/11/21 21:29	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		05/11/21 21:29	17060-07-0	
Toluene-d8 (S)	110	%	66-133	1		05/11/21 21:29	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: TRIP BLANK B **Lab ID: 92537966016** Collected: 05/10/21 00:00 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/11/21 18:04	67-64-1	
Benzene	ND	ug/L	1.0	1		05/11/21 18:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/11/21 18:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/11/21 18:04	74-97-5	IK
Bromodichloromethane	ND	ug/L	1.0	1		05/11/21 18:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/11/21 18:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/11/21 18:04	74-83-9	IH,v1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/11/21 18:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/11/21 18:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/11/21 18:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/11/21 18:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/11/21 18:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/11/21 18:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 18:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 18:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/11/21 18:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/11/21 18:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/11/21 18:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/11/21 18:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 18:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 18:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 18:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/11/21 18:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/11/21 18:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/11/21 18:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/11/21 18:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 18:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 18:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 18:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/11/21 18:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 18:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/11/21 18:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 18:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 18:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/11/21 18:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/11/21 18:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/11/21 18:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/11/21 18:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/11/21 18:04	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/11/21 18:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/11/21 18:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/11/21 18:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/11/21 18:04	91-20-3	
Styrene	ND	ug/L	1.0	1		05/11/21 18:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 18:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 18:04	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: TRIP BLANK B **Lab ID: 92537966016** Collected: 05/10/21 00:00 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/11/21 18:04	127-18-4	
Toluene	ND	ug/L	1.0	1		05/11/21 18:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 18:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 18:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/11/21 18:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/11/21 18:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/11/21 18:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/11/21 18:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/11/21 18:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/11/21 18:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/11/21 18:04	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/11/21 18:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/11/21 18:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/11/21 18:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		05/11/21 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		05/11/21 18:04	17060-07-0	
Toluene-d8 (S)	107	%	70-130	1		05/11/21 18:04	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 15:33	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/11/21 15:33	17060-07-0	
Toluene-d8 (S)	97	%	66-133	1		05/11/21 15:33	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-24D **Lab ID: 92537966017** Collected: 05/10/21 13:55 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	125	5		05/13/21 19:09	67-64-1	v1
Benzene	ND	ug/L	5.0	5		05/13/21 19:09	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		05/13/21 19:09	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		05/13/21 19:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		05/13/21 19:09	75-27-4	
Bromoform	ND	ug/L	5.0	5		05/13/21 19:09	75-25-2	
Bromomethane	ND	ug/L	10.0	5		05/13/21 19:09	74-83-9	IK
2-Butanone (MEK)	ND	ug/L	25.0	5		05/13/21 19:09	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		05/13/21 19:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		05/13/21 19:09	108-90-7	
Chloroethane	**6.2**	ug/L	5.0	5		05/13/21 19:09	75-00-3	
Chloroform	ND	ug/L	25.0	5		05/13/21 19:09	67-66-3	
Chloromethane	ND	ug/L	5.0	5		05/13/21 19:09	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		05/13/21 19:09	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		05/13/21 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		05/13/21 19:09	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		05/13/21 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		05/13/21 19:09	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		05/13/21 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		05/13/21 19:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		05/13/21 19:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		05/13/21 19:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		05/13/21 19:09	75-71-8	
1,1-Dichloroethane	**151**	ug/L	5.0	5		05/13/21 19:09	75-34-3	
1,2-Dichloroethane	**6.3**	ug/L	5.0	5		05/13/21 19:09	107-06-2	
1,1-Dichloroethene	**788**	ug/L	5.0	5		05/13/21 19:09	75-35-4	
cis-1,2-Dichloroethene	**7.2**	ug/L	5.0	5		05/13/21 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		05/13/21 19:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		05/13/21 19:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		05/13/21 19:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		05/13/21 19:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		05/13/21 19:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		05/13/21 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		05/13/21 19:09	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		05/13/21 19:09	108-20-3	
Ethylbenzene	ND	ug/L	5.0	5		05/13/21 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	5		05/13/21 19:09	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		05/13/21 19:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		05/13/21 19:09	99-87-6	
Methylene Chloride	ND	ug/L	25.0	5		05/13/21 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		05/13/21 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		05/13/21 19:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	5		05/13/21 19:09	91-20-3	
Styrene	ND	ug/L	5.0	5		05/13/21 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		05/13/21 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		05/13/21 19:09	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-24D **Lab ID: 92537966017** Collected: 05/10/21 13:55 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	5.0	5		05/13/21 19:09	127-18-4	
Toluene	ND	ug/L	5.0	5		05/13/21 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		05/13/21 19:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		05/13/21 19:09	120-82-1	
1,1,1-Trichloroethane	**10.9**	ug/L	5.0	5		05/13/21 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		05/13/21 19:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		05/13/21 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		05/13/21 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		05/13/21 19:09	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		05/13/21 19:09	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		05/13/21 19:09	75-01-4	
Xylene (Total)	ND	ug/L	5.0	5		05/13/21 19:09	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		05/13/21 19:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		05/13/21 19:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	5		05/13/21 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	5		05/13/21 19:09	17060-07-0	
Toluene-d8 (S)	98	%	70-130	5		05/13/21 19:09	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**299**	ug/L	10.0	5		05/11/21 18:36	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	70-130	5		05/11/21 18:36	17060-07-0	
Toluene-d8 (S)	94	%	66-133	5		05/11/21 18:36	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-45 **Lab ID: 92537966018** Collected: 05/10/21 14:15 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/11/21 21:05	67-64-1	
Benzene	ND	ug/L	1.0	1		05/11/21 21:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/11/21 21:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/11/21 21:05	74-97-5	IK
Bromodichloromethane	ND	ug/L	1.0	1		05/11/21 21:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/11/21 21:05	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/11/21 21:05	74-83-9	IH,v1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/11/21 21:05	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/11/21 21:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/11/21 21:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/11/21 21:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/11/21 21:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/11/21 21:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/11/21 21:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/11/21 21:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/11/21 21:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/11/21 21:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/11/21 21:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/11/21 21:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/11/21 21:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/11/21 21:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/11/21 21:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/11/21 21:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/11/21 21:05	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/11/21 21:05	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/11/21 21:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		05/11/21 21:05	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/11/21 21:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/11/21 21:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/11/21 21:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/11/21 21:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/11/21 21:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/11/21 21:05	91-20-3	
Styrene	ND	ug/L	1.0	1		05/11/21 21:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/11/21 21:05	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Sample: MW-45 **Lab ID: 92537966018** Collected: 05/10/21 14:15 Received: 05/11/21 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1		05/11/21 21:05	127-18-4	
Toluene	ND	ug/L	1.0	1		05/11/21 21:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/11/21 21:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/11/21 21:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/11/21 21:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/11/21 21:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/11/21 21:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/11/21 21:05	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/11/21 21:05	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/11/21 21:05	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/11/21 21:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/11/21 21:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/11/21 21:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		05/11/21 21:05	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130	1		05/11/21 21:05	17060-07-0	
Toluene-d8 (S)	111	%	70-130	1		05/11/21 21:05	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/11/21 16:12	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/11/21 16:12	17060-07-0	
Toluene-d8 (S)	94	%	66-133	1		05/11/21 16:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

QC Batch: 619682 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537966013, 92537966014, 92537966015, 92537966016, 92537966018

METHOD BLANK: 3260100 Matrix: Water
Associated Lab Samples: 92537966013, 92537966014, 92537966015, 92537966016, 92537966018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/11/21 17:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/11/21 17:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/11/21 17:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/11/21 17:46	
1,1-Dichloroethane	ug/L	ND	1.0	05/11/21 17:46	
1,1-Dichloroethene	ug/L	ND	1.0	05/11/21 17:46	
1,1-Dichloropropene	ug/L	ND	1.0	05/11/21 17:46	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/11/21 17:46	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/11/21 17:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/11/21 17:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/11/21 17:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/11/21 17:46	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/11/21 17:46	
1,2-Dichloroethane	ug/L	ND	1.0	05/11/21 17:46	
1,2-Dichloropropane	ug/L	ND	1.0	05/11/21 17:46	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/11/21 17:46	
1,3-Dichloropropane	ug/L	ND	1.0	05/11/21 17:46	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/11/21 17:46	
2,2-Dichloropropane	ug/L	ND	1.0	05/11/21 17:46	
2-Butanone (MEK)	ug/L	ND	5.0	05/11/21 17:46	
2-Chlorotoluene	ug/L	ND	1.0	05/11/21 17:46	
2-Hexanone	ug/L	ND	5.0	05/11/21 17:46	
4-Chlorotoluene	ug/L	ND	1.0	05/11/21 17:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/11/21 17:46	
Acetone	ug/L	ND	25.0	05/11/21 17:46	
Benzene	ug/L	ND	1.0	05/11/21 17:46	
Bromobenzene	ug/L	ND	1.0	05/11/21 17:46	
Bromochloromethane	ug/L	ND	1.0	05/11/21 17:46	IK
Bromodichloromethane	ug/L	ND	1.0	05/11/21 17:46	
Bromoform	ug/L	ND	1.0	05/11/21 17:46	
Bromomethane	ug/L	ND	2.0	05/11/21 17:46	IH,v1
Carbon tetrachloride	ug/L	ND	1.0	05/11/21 17:46	
Chlorobenzene	ug/L	ND	1.0	05/11/21 17:46	
Chloroethane	ug/L	ND	1.0	05/11/21 17:46	
Chloroform	ug/L	ND	5.0	05/11/21 17:46	
Chloromethane	ug/L	ND	1.0	05/11/21 17:46	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/11/21 17:46	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/11/21 17:46	
Dibromochloromethane	ug/L	ND	1.0	05/11/21 17:46	
Dibromomethane	ug/L	ND	1.0	05/11/21 17:46	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

METHOD BLANK: 3260100 Matrix: Water
Associated Lab Samples: 92537966013, 92537966014, 92537966015, 92537966016, 92537966018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/11/21 17:46	
Diisopropyl ether	ug/L	ND	1.0	05/11/21 17:46	
Ethylbenzene	ug/L	ND	1.0	05/11/21 17:46	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/11/21 17:46	
m&p-Xylene	ug/L	ND	2.0	05/11/21 17:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/11/21 17:46	
Methylene Chloride	ug/L	ND	5.0	05/11/21 17:46	
Naphthalene	ug/L	ND	1.0	05/11/21 17:46	
o-Xylene	ug/L	ND	1.0	05/11/21 17:46	
p-Isopropyltoluene	ug/L	ND	1.0	05/11/21 17:46	
Styrene	ug/L	ND	1.0	05/11/21 17:46	
Tetrachloroethene	ug/L	ND	1.0	05/11/21 17:46	
Toluene	ug/L	ND	1.0	05/11/21 17:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/11/21 17:46	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/11/21 17:46	
Trichloroethene	ug/L	ND	1.0	05/11/21 17:46	
Trichlorofluoromethane	ug/L	ND	1.0	05/11/21 17:46	
Vinyl acetate	ug/L	ND	2.0	05/11/21 17:46	
Vinyl chloride	ug/L	ND	1.0	05/11/21 17:46	
Xylene (Total)	ug/L	ND	1.0	05/11/21 17:46	
1,2-Dichloroethane-d4 (S)	%	86	70-130	05/11/21 17:46	
4-Bromofluorobenzene (S)	%	104	70-130	05/11/21 17:46	
Toluene-d8 (S)	%	108	70-130	05/11/21 17:46	

LABORATORY CONTROL SAMPLE: 3260101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.0	100	70-130	
1,1,1-Trichloroethane	ug/L	50	44.0	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.4	89	70-130	
1,1,2-Trichloroethane	ug/L	50	51.2	102	70-130	
1,1-Dichloroethane	ug/L	50	42.7	85	70-130	
1,1-Dichloroethene	ug/L	50	42.2	84	70-132	
1,1-Dichloropropene	ug/L	50	46.8	94	70-131	
1,2,3-Trichlorobenzene	ug/L	50	47.6	95	70-134	
1,2,3-Trichloropropane	ug/L	50	44.2	88	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.7	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	70-130	
1,2-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,2-Dichloroethane	ug/L	50	42.2	84	70-130	
1,2-Dichloropropane	ug/L	50	46.8	94	70-130	
1,3-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,3-Dichloropropane	ug/L	50	49.0	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
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

LABORATORY CONTROL SAMPLE: 3260101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.7	95	70-130	
2,2-Dichloropropane	ug/L	50	44.4	89	70-130	
2-Butanone (MEK)	ug/L	100	95.5	96	70-133	
2-Chlorotoluene	ug/L	50	49.0	98	70-130	
2-Hexanone	ug/L	100	83.8	84	70-130	
4-Chlorotoluene	ug/L	50	46.9	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.9	89	70-130	
Acetone	ug/L	100	91.0	91	70-144	
Benzene	ug/L	50	46.2	92	70-130	
Bromobenzene	ug/L	50	48.7	97	70-130	
Bromochloromethane	ug/L	50	44.3	89	70-130	IK
Bromodichloromethane	ug/L	50	45.7	91	70-130	
Bromoform	ug/L	50	49.7	99	70-131	
Bromomethane	ug/L	50	62.5	125	30-177	IH,v1
Carbon tetrachloride	ug/L	50	46.5	93	70-130	
Chlorobenzene	ug/L	50	45.5	91	70-130	
Chloroethane	ug/L	50	39.5	79	46-131	
Chloroform	ug/L	50	45.6	91	70-130	
Chloromethane	ug/L	50	43.5	87	49-130	
cis-1,2-Dichloroethene	ug/L	50	42.3	85	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	50.9	102	70-130	
Dibromomethane	ug/L	50	46.1	92	70-130	
Dichlorodifluoromethane	ug/L	50	39.6	79	52-134	
Diisopropyl ether	ug/L	50	44.7	89	70-131	
Ethylbenzene	ug/L	50	45.0	90	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.1	98	70-131	
m&p-Xylene	ug/L	100	91.0	91	70-130	
Methyl-tert-butyl ether	ug/L	50	48.7	97	70-130	
Methylene Chloride	ug/L	50	41.4	83	68-130	
Naphthalene	ug/L	50	45.7	91	70-133	
o-Xylene	ug/L	50	44.9	90	70-130	
p-Isopropyltoluene	ug/L	50	45.5	91	70-130	
Styrene	ug/L	50	46.4	93	70-130	
Tetrachloroethene	ug/L	50	45.8	92	70-130	
Toluene	ug/L	50	44.0	88	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.7	85	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	70-130	
Trichloroethene	ug/L	50	49.5	99	70-130	
Trichlorofluoromethane	ug/L	50	41.5	83	61-130	
Vinyl acetate	ug/L	100	111	111	70-140	
Vinyl chloride	ug/L	50	40.2	80	59-142	
Xylene (Total)	ug/L	150	136	91	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			93	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260102 3260103

Parameter	Units	92537966014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	15.6	21.5	78	107	70-135	32	30	R1
1,1,1-Trichloroethane	ug/L	3.2	20	20	20.9	26.6	88	117	70-148	24	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.8	21.7	79	108	70-131	31	30	R1
1,1,2-Trichloroethane	ug/L	ND	20	20	15.9	21.9	80	110	70-136	32	30	R1
1,1-Dichloroethane	ug/L	6.5	20	20	23.0	28.9	82	112	70-147	23	30	
1,1-Dichloroethene	ug/L	28.2	20	20	46.5	49.3	92	106	70-158	6	30	
1,1-Dichloropropene	ug/L	ND	20	20	16.4	22.3	82	112	70-149	31	30	R1
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.2	22.2	81	111	68-140	31	30	R1
1,2,3-Trichloropropane	ug/L	ND	20	20	15.3	21.6	77	108	67-137	34	30	R1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.0	22.1	80	110	70-139	32	30	R1
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.2	21.1	76	106	69-136	33	30	R1
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	15.2	21.6	76	108	70-137	34	30	R1
1,2-Dichlorobenzene	ug/L	ND	20	20	15.8	21.9	79	109	70-133	32	30	R1
1,2-Dichloroethane	ug/L	ND	20	20	16.3	22.3	80	110	67-138	31	30	R1
1,2-Dichloropropane	ug/L	ND	20	20	16.5	23.3	82	117	70-138	34	30	R1
1,3-Dichlorobenzene	ug/L	ND	20	20	15.9	21.8	80	109	70-133	31	30	R1
1,3-Dichloropropane	ug/L	ND	20	20	15.7	21.5	79	107	70-136	31	30	R1
1,4-Dichlorobenzene	ug/L	ND	20	20	16.0	21.9	80	109	70-133	31	30	R1
2,2-Dichloropropane	ug/L	ND	20	20	16.6	23.7	83	118	52-155	35	30	R1
2-Butanone (MEK)	ug/L	ND	40	40	30.2	41.8	75	105	61-147	32	30	R1
2-Chlorotoluene	ug/L	ND	20	20	16.6	22.7	83	114	70-141	31	30	R1
2-Hexanone	ug/L	ND	40	40	31.3	42.3	78	106	67-139	30	30	
4-Chlorotoluene	ug/L	ND	20	20	15.9	21.7	79	109	70-135	31	30	R1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	32.3	43.9	81	110	67-136	31	30	R1
Acetone	ug/L	ND	40	40	33.1	46.9	83	117	55-159	35	30	R1
Benzene	ug/L	ND	20	20	16.3	22.0	81	110	67-150	30	30	
Bromobenzene	ug/L	ND	20	20	16.1	22.5	80	112	70-134	33	30	R1
Bromochloromethane	ug/L	ND	20	20	16.2	22.7	81	113	70-146	34	30	R1
Bromodichloromethane	ug/L	ND	20	20	15.8	21.9	79	109	70-138	32	30	R1
Bromoform	ug/L	ND	20	20	14.1	19.7	70	99	57-138	33	30	R1
Bromomethane	ug/L	ND	20	20	21.4	29.1	107	146	10-200	30	30	
Carbon tetrachloride	ug/L	ND	20	20	17.0	23.5	85	118	70-147	32	30	R1
Chlorobenzene	ug/L	ND	20	20	16.0	22.1	80	111	70-137	32	30	R1
Chloroethane	ug/L	ND	20	20	18.5	23.7	92	119	51-166	25	30	IK
Chloroform	ug/L	ND	20	20	16.9	24.1	84	120	70-144	35	30	R1
Chloromethane	ug/L	ND	20	20	15.5	21.3	78	107	24-161	32	30	R1
cis-1,2-Dichloroethene	ug/L	ND	20	20	16.6	22.9	83	114	67-148	32	30	R1
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.5	21.6	77	108	70-142	33	30	R1
Dibromochloromethane	ug/L	ND	20	20	15.2	21.1	76	105	68-138	32	30	R1
Dibromomethane	ug/L	ND	20	20	16.3	22.1	81	111	70-134	31	30	R1
Dichlorodifluoromethane	ug/L	ND	20	20	15.6	21.8	78	109	43-155	33	30	R1
Diisopropyl ether	ug/L	ND	20	20	15.2	21.3	76	106	65-146	34	30	R1
Ethylbenzene	ug/L	ND	20	20	16.0	22.3	80	111	68-143	32	30	R1
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.8	23.2	84	116	62-151	32	30	R1

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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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260102 3260103

Parameter	Units	92537966014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	40	40	31.9	43.8	80	110	53-157	31	30	R1
Methyl-tert-butyl ether	ug/L	ND	20	20	16.2	21.9	79	107	59-156	30	30	
Methylene Chloride	ug/L	ND	20	20	16.0	21.9	80	110	64-148	31	30	R1
Naphthalene	ug/L	ND	20	20	15.4	21.1	77	105	57-150	31	30	R1
o-Xylene	ug/L	ND	20	20	15.9	21.8	80	109	68-143	31	30	R1
p-Isopropyltoluene	ug/L	ND	20	20	16.1	21.8	81	109	70-141	30	30	
Styrene	ug/L	ND	20	20	15.8	21.9	79	109	70-136	32	30	R1
Tetrachloroethene	ug/L	ND	20	20	15.8	22.0	79	110	70-139	33	30	R1
Toluene	ug/L	ND	20	20	16.0	22.0	80	110	47-157	31	30	R1
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.7	23.5	84	117	70-149	33	30	R1
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.7	21.8	79	109	70-138	32	30	R1
Trichloroethene	ug/L	ND	20	20	16.3	22.7	82	113	70-149	33	30	R1
Trichlorofluoromethane	ug/L	ND	20	20	17.2	24.1	86	120	61-154	33	30	R1
Vinyl acetate	ug/L	ND	40	40	31.6	43.5	79	109	48-156	32	30	R1
Vinyl chloride	ug/L	ND	20	20	16.2	21.7	81	109	55-172	29	30	
Xylene (Total)	ug/L	ND	60	60	47.9	65.7	80	109	66-145	31	30	RS
1,2-Dichloroethane-d4 (S)	%						102	100	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						101	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

QC Batch: 619721 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537966001, 92537966002, 92537966003, 92537966004, 92537966005, 92537966006, 92537966007, 92537966008, 92537966009, 92537966010, 92537966011, 92537966012

METHOD BLANK: 3260481 Matrix: Water

Associated Lab Samples: 92537966001, 92537966002, 92537966003, 92537966004, 92537966005, 92537966006, 92537966007, 92537966008, 92537966009, 92537966010, 92537966011, 92537966012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1-Dichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,1-Dichloroethene	ug/L	ND	1.0	05/12/21 17:16	
1,1-Dichloropropene	ug/L	ND	1.0	05/12/21 17:16	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/12/21 17:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/12/21 17:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichloroethane	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichloropropane	ug/L	ND	1.0	05/12/21 17:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
1,3-Dichloropropane	ug/L	ND	1.0	05/12/21 17:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
2,2-Dichloropropane	ug/L	ND	1.0	05/12/21 17:16	
2-Butanone (MEK)	ug/L	ND	5.0	05/12/21 17:16	
2-Chlorotoluene	ug/L	ND	1.0	05/12/21 17:16	
2-Hexanone	ug/L	ND	5.0	05/12/21 17:16	
4-Chlorotoluene	ug/L	ND	1.0	05/12/21 17:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/12/21 17:16	
Acetone	ug/L	ND	25.0	05/12/21 17:16	
Benzene	ug/L	ND	1.0	05/12/21 17:16	
Bromobenzene	ug/L	ND	1.0	05/12/21 17:16	
Bromochloromethane	ug/L	ND	1.0	05/12/21 17:16	
Bromodichloromethane	ug/L	ND	1.0	05/12/21 17:16	
Bromoform	ug/L	ND	1.0	05/12/21 17:16	
Bromomethane	ug/L	ND	2.0	05/12/21 17:16	
Carbon tetrachloride	ug/L	ND	1.0	05/12/21 17:16	
Chlorobenzene	ug/L	ND	1.0	05/12/21 17:16	
Chloroethane	ug/L	ND	1.0	05/12/21 17:16	
Chloroform	ug/L	ND	5.0	05/12/21 17:16	
Chloromethane	ug/L	ND	1.0	05/12/21 17:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 17:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 17:16	
Dibromochloromethane	ug/L	ND	1.0	05/12/21 17:16	

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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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

METHOD BLANK: 3260481 Matrix: Water

Associated Lab Samples: 92537966001, 92537966002, 92537966003, 92537966004, 92537966005, 92537966006, 92537966007, 92537966008, 92537966009, 92537966010, 92537966011, 92537966012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/12/21 17:16	
Dichlorodifluoromethane	ug/L	ND	1.0	05/12/21 17:16	
Diisopropyl ether	ug/L	ND	1.0	05/12/21 17:16	
Ethylbenzene	ug/L	ND	1.0	05/12/21 17:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/12/21 17:16	
m&p-Xylene	ug/L	ND	2.0	05/12/21 17:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/12/21 17:16	
Methylene Chloride	ug/L	ND	5.0	05/12/21 17:16	
Naphthalene	ug/L	ND	1.0	05/12/21 17:16	
o-Xylene	ug/L	ND	1.0	05/12/21 17:16	
p-Isopropyltoluene	ug/L	ND	1.0	05/12/21 17:16	
Styrene	ug/L	ND	1.0	05/12/21 17:16	
Tetrachloroethene	ug/L	ND	1.0	05/12/21 17:16	
Toluene	ug/L	ND	1.0	05/12/21 17:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/12/21 17:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/12/21 17:16	
Trichloroethene	ug/L	ND	1.0	05/12/21 17:16	
Trichlorofluoromethane	ug/L	ND	1.0	05/12/21 17:16	
Vinyl acetate	ug/L	ND	2.0	05/12/21 17:16	
Vinyl chloride	ug/L	ND	1.0	05/12/21 17:16	
Xylene (Total)	ug/L	ND	1.0	05/12/21 17:16	
1,2-Dichloroethane-d4 (S)	%	107	70-130	05/12/21 17:16	
4-Bromofluorobenzene (S)	%	100	70-130	05/12/21 17:16	
Toluene-d8 (S)	%	101	70-130	05/12/21 17:16	

LABORATORY CONTROL SAMPLE: 3260482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,1-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,2-Trichloroethane	ug/L	50	49.9	100	70-130	
1,1-Dichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethene	ug/L	50	54.2	108	70-132	
1,1-Dichloropropene	ug/L	50	50.8	102	70-131	
1,2,3-Trichlorobenzene	ug/L	50	52.0	104	70-134	
1,2,3-Trichloropropane	ug/L	50	50.7	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.5	101	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	50.5	101	70-130	
1,2-Dichloropropane	ug/L	50	52.3	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

LABORATORY CONTROL SAMPLE: 3260482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,3-Dichloropropane	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	50.5	101	70-130	
2-Butanone (MEK)	ug/L	100	97.0	97	70-133	
2-Chlorotoluene	ug/L	50	51.1	102	70-130	
2-Hexanone	ug/L	100	104	104	70-130	
4-Chlorotoluene	ug/L	50	49.4	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	108	108	70-144	
Benzene	ug/L	50	50.1	100	70-130	
Bromobenzene	ug/L	50	50.3	101	70-130	
Bromochloromethane	ug/L	50	51.9	104	70-130	
Bromodichloromethane	ug/L	50	51.7	103	70-130	
Bromoform	ug/L	50	49.8	100	70-131	
Bromomethane	ug/L	50	58.2	116	30-177	
Carbon tetrachloride	ug/L	50	51.8	104	70-130	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	42.5	85	46-131	
Chloroform	ug/L	50	52.1	104	70-130	
Chloromethane	ug/L	50	47.6	95	49-130	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	70-130	
Dibromochloromethane	ug/L	50	50.7	101	70-130	
Dibromomethane	ug/L	50	49.9	100	70-130	
Dichlorodifluoromethane	ug/L	50	46.7	93	52-134	
Diisopropyl ether	ug/L	50	48.5	97	70-131	
Ethylbenzene	ug/L	50	50.9	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	70-131	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	47.5	95	70-130	
Methylene Chloride	ug/L	50	49.4	99	68-130	
Naphthalene	ug/L	50	49.6	99	70-133	
o-Xylene	ug/L	50	50.5	101	70-130	
p-Isopropyltoluene	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	50.1	100	70-130	
Toluene	ug/L	50	50.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	70-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	56.5	113	61-130	
Vinyl acetate	ug/L	100	106	106	70-140	
Vinyl chloride	ug/L	50	47.5	95	59-142	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			101	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

LABORATORY CONTROL SAMPLE: 3260482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260483 3260484

Parameter	Units	92537976008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.5	21.6	113	108	70-135	4	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	24.7	23.7	123	119	70-148	4	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.8	21.8	114	109	70-131	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.9	22.2	114	111	70-136	3	30	
1,1-Dichloroethane	ug/L	5.5	20	20	29.7	28.4	121	115	70-147	4	30	
1,1-Dichloroethene	ug/L	ND	20	20	26.1	25.6	131	128	70-158	2	30	
1,1-Dichloropropene	ug/L	ND	20	20	24.4	23.5	122	117	70-149	4	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.6	22.2	113	111	68-140	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.5	22.0	113	110	67-137	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.8	22.2	114	111	70-139	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.3	21.4	106	107	69-136	1	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.6	21.9	113	109	70-137	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.8	21.8	114	109	70-133	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	23.7	22.7	118	114	67-138	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	24.5	24.0	123	120	70-138	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.1	22.2	116	111	70-133	4	30	
1,3-Dichloropropane	ug/L	ND	20	20	22.8	22.1	114	110	70-136	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	23.6	22.8	118	114	70-133	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	26.0	24.3	130	122	52-155	6	30	
2-Butanone (MEK)	ug/L	ND	40	40	41.9	42.3	105	106	61-147	1	30	
2-Chlorotoluene	ug/L	ND	20	20	24.0	23.5	120	118	70-141	2	30	
2-Hexanone	ug/L	ND	40	40	43.6	43.3	109	108	67-139	1	30	
4-Chlorotoluene	ug/L	ND	20	20	23.4	22.7	117	113	70-135	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	44.8	45.9	112	115	67-136	2	30	
Acetone	ug/L	ND	40	40	46.7	47.1	117	118	55-159	1	30	
Benzene	ug/L	ND	20	20	23.8	23.1	119	115	67-150	3	30	
Bromobenzene	ug/L	ND	20	20	23.2	22.7	116	113	70-134	2	30	
Bromochloromethane	ug/L	ND	20	20	24.2	22.8	121	114	70-146	6	30	
Bromodichloromethane	ug/L	ND	20	20	23.5	23.0	117	115	70-138	2	30	
Bromoform	ug/L	ND	20	20	21.6	20.6	108	103	57-138	5	30	
Bromomethane	ug/L	ND	20	20	32.2	30.3	161	151	10-200	6	30	
Carbon tetrachloride	ug/L	ND	20	20	25.0	24.6	125	123	70-147	2	30	
Chlorobenzene	ug/L	ND	20	20	23.6	22.5	118	113	70-137	5	30	
Chloroethane	ug/L	ND	20	20	26.0	23.9	130	119	51-166	9	30	
Chloroform	ug/L	ND	20	20	24.9	24.7	124	123	70-144	1	30	
Chloromethane	ug/L	ND	20	20	22.0	21.3	110	107	24-161	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.7	23.5	118	118	67-148	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.1	22.7	115	114	70-142	2	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260483 3260484

Parameter	Units	92537976008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromochloromethane	ug/L	ND	20	20	22.8	21.6	114	108	68-138	5	30	
Dibromomethane	ug/L	ND	20	20	22.6	22.7	113	113	70-134	0	30	
Dichlorodifluoromethane	ug/L	ND	20	20	22.9	21.6	115	108	43-155	6	30	
Diisopropyl ether	ug/L	ND	20	20	22.2	21.9	111	109	65-146	1	30	
Ethylbenzene	ug/L	ND	20	20	23.8	22.6	119	113	68-143	5	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.9	24.1	125	121	62-151	3	30	
m&p-Xylene	ug/L	ND	40	40	47.7	45.4	119	114	53-157	5	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.2	21.3	111	107	59-156	4	30	
Methylene Chloride	ug/L	ND	20	20	23.6	22.9	118	115	64-148	3	30	
Naphthalene	ug/L	ND	20	20	21.3	21.2	107	106	57-150	0	30	
o-Xylene	ug/L	ND	20	20	23.6	22.3	118	112	68-143	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	23.5	22.6	118	113	70-141	4	30	
Styrene	ug/L	ND	20	20	23.6	22.2	118	111	70-136	6	30	
Tetrachloroethene	ug/L	ND	20	20	24.2	23.1	121	115	70-139	5	30	
Toluene	ug/L	ND	20	20	23.4	22.9	117	115	47-157	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.4	24.1	122	121	70-149	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.4	23.0	117	115	70-138	2	30	
Trichloroethene	ug/L	ND	20	20	24.3	23.3	122	117	70-149	4	30	
Trichlorofluoromethane	ug/L	ND	20	20	25.8	25.1	129	125	61-154	3	30	
Vinyl acetate	ug/L	ND	40	40	45.9	45.3	115	113	48-156	1	30	
Vinyl chloride	ug/L	ND	20	20	22.9	22.0	114	110	55-172	4	30	
Xylene (Total)	ug/L	ND	60	60	71.3	67.7	119	113	66-145	5	30	
1,2-Dichloroethane-d4 (S)	%						104	100	70-130			
4-Bromofluorobenzene (S)	%						102	100	70-130			
Toluene-d8 (S)	%						101	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

QC Batch: 620213
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537966017

METHOD BLANK: 3263117 Matrix: Water
Associated Lab Samples: 92537966017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
1,1-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/13/21 12:16	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloroethane	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
1,3-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
2,2-Dichloropropane	ug/L	ND	1.0	05/13/21 12:16	
2-Butanone (MEK)	ug/L	ND	5.0	05/13/21 12:16	
2-Chlorotoluene	ug/L	ND	1.0	05/13/21 12:16	
2-Hexanone	ug/L	ND	5.0	05/13/21 12:16	
4-Chlorotoluene	ug/L	ND	1.0	05/13/21 12:16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/13/21 12:16	
Acetone	ug/L	ND	25.0	05/13/21 12:16	v1
Benzene	ug/L	ND	1.0	05/13/21 12:16	
Bromobenzene	ug/L	ND	1.0	05/13/21 12:16	
Bromochloromethane	ug/L	ND	1.0	05/13/21 12:16	
Bromodichloromethane	ug/L	ND	1.0	05/13/21 12:16	
Bromoform	ug/L	ND	1.0	05/13/21 12:16	
Bromomethane	ug/L	ND	2.0	05/13/21 12:16	IK
Carbon tetrachloride	ug/L	ND	1.0	05/13/21 12:16	
Chlorobenzene	ug/L	ND	1.0	05/13/21 12:16	
Chloroethane	ug/L	ND	1.0	05/13/21 12:16	
Chloroform	ug/L	ND	5.0	05/13/21 12:16	
Chloromethane	ug/L	ND	1.0	05/13/21 12:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
Dibromochloromethane	ug/L	ND	1.0	05/13/21 12:16	
Dibromomethane	ug/L	ND	1.0	05/13/21 12:16	

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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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

METHOD BLANK: 3263117 Matrix: Water
Associated Lab Samples: 92537966017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/13/21 12:16	
Diisopropyl ether	ug/L	ND	1.0	05/13/21 12:16	
Ethylbenzene	ug/L	ND	1.0	05/13/21 12:16	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	05/13/21 12:16	
m&p-Xylene	ug/L	ND	2.0	05/13/21 12:16	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/13/21 12:16	
Methylene Chloride	ug/L	ND	5.0	05/13/21 12:16	
Naphthalene	ug/L	ND	1.0	05/13/21 12:16	
o-Xylene	ug/L	ND	1.0	05/13/21 12:16	
p-Isopropyltoluene	ug/L	ND	1.0	05/13/21 12:16	
Styrene	ug/L	ND	1.0	05/13/21 12:16	
Tetrachloroethene	ug/L	ND	1.0	05/13/21 12:16	
Toluene	ug/L	ND	1.0	05/13/21 12:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/13/21 12:16	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/13/21 12:16	
Trichloroethene	ug/L	ND	1.0	05/13/21 12:16	
Trichlorofluoromethane	ug/L	ND	1.0	05/13/21 12:16	
Vinyl acetate	ug/L	ND	2.0	05/13/21 12:16	
Vinyl chloride	ug/L	ND	1.0	05/13/21 12:16	
Xylene (Total)	ug/L	ND	1.0	05/13/21 12:16	
1,2-Dichloroethane-d4 (S)	%	97	70-130	05/13/21 12:16	
4-Bromofluorobenzene (S)	%	98	70-130	05/13/21 12:16	
Toluene-d8 (S)	%	99	70-130	05/13/21 12:16	

LABORATORY CONTROL SAMPLE: 3263118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	70-130	
1,1,1-Trichloroethane	ug/L	50	49.1	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	57.2	114	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	70-130	
1,1-Dichloroethene	ug/L	50	49.5	99	70-132	
1,1-Dichloropropene	ug/L	50	50.7	101	70-131	
1,2,3-Trichlorobenzene	ug/L	50	54.9	110	70-134	
1,2,3-Trichloropropane	ug/L	50	55.1	110	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	58.5	117	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	53.5	107	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
1,2-Dichloropropane	ug/L	50	54.1	108	70-130	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,3-Dichloropropane	ug/L	50	53.3	107	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

LABORATORY CONTROL SAMPLE: 3263118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
2,2-Dichloropropane	ug/L	50	51.3	103	70-130	
2-Butanone (MEK)	ug/L	100	117	117	70-133	
2-Chlorotoluene	ug/L	50	50.9	102	70-130	
2-Hexanone	ug/L	100	117	117	70-130	
4-Chlorotoluene	ug/L	50	50.3	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	70-130	
Acetone	ug/L	100	128	128	70-144	v1
Benzene	ug/L	50	53.2	106	70-130	
Bromobenzene	ug/L	50	50.3	101	70-130	
Bromochloromethane	ug/L	50	53.6	107	70-130	
Bromodichloromethane	ug/L	50	51.6	103	70-130	
Bromoform	ug/L	50	54.8	110	70-131	
Bromomethane	ug/L	50	36.7	73	30-177	IK
Carbon tetrachloride	ug/L	50	50.5	101	70-130	
Chlorobenzene	ug/L	50	52.6	105	70-130	
Chloroethane	ug/L	50	50.9	102	46-131	
Chloroform	ug/L	50	52.7	105	70-130	
Chloromethane	ug/L	50	52.9	106	49-130	
cis-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dibromomethane	ug/L	50	53.3	107	70-130	
Dichlorodifluoromethane	ug/L	50	37.4	75	52-134	
Diisopropyl ether	ug/L	50	53.8	108	70-131	
Ethylbenzene	ug/L	50	51.9	104	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.1	108	70-131	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	53.6	107	70-130	
Methylene Chloride	ug/L	50	46.9	94	68-130	
Naphthalene	ug/L	50	56.3	113	70-133	
o-Xylene	ug/L	50	52.2	104	70-130	
p-Isopropyltoluene	ug/L	50	50.5	101	70-130	
Styrene	ug/L	50	53.4	107	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	49.0	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	55.8	112	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	41.7	83	61-130	
Vinyl acetate	ug/L	100	122	122	70-140	
Vinyl chloride	ug/L	50	47.5	95	59-142	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3263119 3263120

Parameter	Units	92537746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	582	433	146	108	70-135	29	30	M1
1,1,1-Trichloroethane	ug/L	ND	400	400	589	438	147	110	70-148	29	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	618	453	154	113	70-131	31	30	M1,R1
1,1,2-Trichloroethane	ug/L	ND	400	400	581	426	145	106	70-136	31	30	M1,R1
1,1-Dichloroethane	ug/L	ND	400	400	640	472	160	118	70-147	30	30	M1
1,1-Dichloroethene	ug/L	ND	400	400	604	444	151	111	70-158	30	30	
1,1-Dichloropropene	ug/L	ND	400	400	620	454	155	113	70-149	31	30	M1,R1
1,2,3-Trichlorobenzene	ug/L	ND	400	400	575	444	144	111	68-140	26	30	M1
1,2,3-Trichloropropane	ug/L	ND	400	400	ND	ND	0	0	67-137		30	M1
1,2,4-Trichlorobenzene	ug/L	ND	400	400	552	431	138	108	70-139	25	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	608	460	152	115	69-136	28	30	M1
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	590	440	148	110	70-137	29	30	M1
1,2-Dichlorobenzene	ug/L	ND	400	400	540	414	135	104	70-133	26	30	M1
1,2-Dichloroethane	ug/L	ND	400	400	556	413	139	103	67-138	30	30	M1
1,2-Dichloropropane	ug/L	ND	400	400	646	483	161	121	70-138	29	30	M1
1,3-Dichlorobenzene	ug/L	ND	400	400	546	424	137	106	70-133	25	30	M1
1,3-Dichloropropane	ug/L	ND	400	400	605	449	151	112	70-136	30	30	M1
1,4-Dichlorobenzene	ug/L	ND	400	400	542	417	136	104	70-133	26	30	M1
2,2-Dichloropropane	ug/L	ND	400	400	548	410	137	102	52-155	29	30	
2-Butanone (MEK)	ug/L	ND	800	800	1290	927	161	116	61-147	33	30	M1,R1
2-Chlorotoluene	ug/L	ND	400	400	951	617	238	154	70-141	43	30	M1,R1
2-Hexanone	ug/L	ND	800	800	1240	884	154	111	67-139	33	30	M1,R1
4-Chlorotoluene	ug/L	ND	400	400	549	421	137	105	70-135	26	30	M1
4-Methyl-2-pentanone (MIBK)	ug/L	ND	800	800	1170	842	147	105	67-136	33	30	M1,R1
Acetone	ug/L	ND	800	800	1350	994	169	124	55-159	31	30	M1,R1, v1
Benzene	ug/L	3180	400	400	4040	3720	215	135	67-150	8	30	E,M1
Bromobenzene	ug/L	ND	400	400	548	425	137	106	70-134	25	30	M1
Bromochloromethane	ug/L	ND	400	400	625	470	156	118	70-146	28	30	M1
Bromodichloromethane	ug/L	ND	400	400	580	436	145	109	70-138	28	30	M1
Bromoform	ug/L	ND	400	400	555	415	139	104	57-138	29	30	M1
Bromomethane	ug/L	ND	400	400	591	411	148	103	10-200	36	30	IK,R1
Carbon tetrachloride	ug/L	ND	400	400	594	451	149	113	70-147	27	30	M1
Chlorobenzene	ug/L	ND	400	400	593	445	148	111	70-137	29	30	M1
Chloroethane	ug/L	ND	400	400	692	640	173	160	51-166	8	30	M1
Chloroform	ug/L	ND	400	400	636	468	158	116	70-144	30	30	M1
Chloromethane	ug/L	ND	400	400	612	437	153	109	24-161	33	30	R1
cis-1,2-Dichloroethene	ug/L	ND	400	400	618	461	155	115	67-148	29	30	M1
cis-1,3-Dichloropropene	ug/L	ND	400	400	559	418	140	105	70-142	29	30	
Dibromochloromethane	ug/L	ND	400	400	599	438	150	110	68-138	31	30	M1,R1
Dibromomethane	ug/L	ND	400	400	596	443	149	111	70-134	30	30	M1
Dichlorodifluoromethane	ug/L	ND	400	400	478	357	119	89	43-155	29	30	
Diisopropyl ether	ug/L	26.1	400	400	638	478	153	113	65-146	29	30	M1
Ethylbenzene	ug/L	1680	400	400	2360	2170	169	124	68-143	8	30	M1

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3263119 3263120

Parameter	Units	92537746001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hexachloro-1,3-butadiene	ug/L	ND	400	400	570	442	142	110	62-151	25	30	
m&p-Xylene	ug/L	5900	800	800	7320	6870	177	121	53-157	6	30	M1
Methyl-tert-butyl ether	ug/L	524	400	400	1180	994	165	117	59-156	17	30	M1
Methylene Chloride	ug/L	ND	400	400	499	331	125	83	64-148	41	30	R1
Naphthalene	ug/L	758	400	400	1420	1260	166	126	57-150	12	30	M1
o-Xylene	ug/L	3320	400	400	4070	3830	188	127	68-143	6	30	E,M1
p-Isopropyltoluene	ug/L	ND	400	400	587	456	147	114	70-141	25	30	M1
Styrene	ug/L	ND	400	400	696	547	174	137	70-136	24	30	M1
Tetrachloroethene	ug/L	ND	400	400	563	420	141	105	70-139	29	30	M1
Toluene	ug/L	685	400	400	1310	1130	156	111	47-157	15	30	
trans-1,2-Dichloroethene	ug/L	ND	400	400	638	479	159	120	70-149	28	30	M1
trans-1,3-Dichloropropene	ug/L	ND	400	400	547	401	137	100	70-138	31	30	R1
Trichloroethene	ug/L	ND	400	400	608	450	152	112	70-149	30	30	M1
Trichlorofluoromethane	ug/L	ND	400	400	532	393	133	98	61-154	30	30	
Vinyl acetate	ug/L	ND	800	800	1310	960	164	120	48-156	31	30	M1,R1
Vinyl chloride	ug/L	ND	400	400	620	462	155	115	55-172	29	30	
Xylene (Total)	ug/L	9230	1200	1200	11400	10700	180	123	66-145	6	30	ES,MS
1,2-Dichloroethane-d4 (S)	%						89	94	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						96	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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

QC Batch: 619690
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537966001, 92537966002, 92537966003, 92537966004, 92537966005, 92537966006, 92537966007, 92537966008, 92537966009, 92537966010, 92537966011, 92537966012, 92537966013, 92537966014, 92537966015

METHOD BLANK: 3260219 Matrix: Water
Associated Lab Samples: 92537966001, 92537966002, 92537966003, 92537966004, 92537966005, 92537966006, 92537966007, 92537966008, 92537966009, 92537966010, 92537966011, 92537966012, 92537966013, 92537966014, 92537966015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/11/21 14:52	
1,2-Dichloroethane-d4 (S)	%	89	70-130	05/11/21 14:52	
Toluene-d8 (S)	%	111	66-133	05/11/21 14:52	

LABORATORY CONTROL SAMPLE: 3260220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.9	99	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
Toluene-d8 (S)	%			113	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260221 3260222

Parameter	Units	92537966014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	22.6	20	20	41.5	43.1	95	103	64-141	4	30	
1,2-Dichloroethane-d4 (S)	%						88	91	70-130		30	
Toluene-d8 (S)	%						109	109	66-133		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: Former Kop-Flex Facility Site
Pace Project No.: 92537966

QC Batch: 619692
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537966016, 92537966017, 92537966018

METHOD BLANK: 3260240 Matrix: Water
Associated Lab Samples: 92537966016, 92537966017, 92537966018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/11/21 14:55	
1,2-Dichloroethane-d4 (S)	%	109	70-130	05/11/21 14:55	
Toluene-d8 (S)	%	97	66-133	05/11/21 14:55	

LABORATORY CONTROL SAMPLE: 3260241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.0	90	70-130	
1,2-Dichloroethane-d4 (S)	%			110	70-130	
Toluene-d8 (S)	%			99	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3260242 3260243

Parameter	Units	92537966017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	299	100	100	394	369	95	70	64-141	7	30	
1,2-Dichloroethane-d4 (S)	%						109	108	70-130		30	
Toluene-d8 (S)	%						92	93	66-133		30	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

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.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the 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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Kop-Flex Facility Site
Pace Project No.: 92537966

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92537966001	**MW-46D**	EPA 8260D	619721		
92537966002	**MW-35D**	EPA 8260D	619721		
92537966003	**MW-34D**	EPA 8260D	619721		
92537966004	**MW-31D**	EPA 8260D	619721		
92537966005	**MW-33D-295**	EPA 8260D	619721		
92537966006	**MW-33D-235**	EPA 8260D	619721		
92537966007	**MW-29D**	EPA 8260D	619721		
92537966008	**MW-30D-413**	EPA 8260D	619721		
92537966009	**MW-30D-273**	EPA 8260D	619721		
92537966010	**MW-32D**	EPA 8260D	619721		
92537966011	**MW-28D**	EPA 8260D	619721		
92537966012	**MW-36D**	EPA 8260D	619721		
92537966013	**MW-25D-130**	EPA 8260D	619682		
92537966014	**MW-25D-190**	EPA 8260D	619682		
92537966015	**DUP-20210510**	EPA 8260D	619682		
92537966016	**TRIP BLANK B**	EPA 8260D	619682		
92537966017	**MW-24D**	EPA 8260D	620213		
92537966018	**MW-45**	EPA 8260D	619682		
92537966001	**MW-46D**	EPA 8260D Mod.	619690		
92537966002	**MW-35D**	EPA 8260D Mod.	619690		
92537966003	**MW-34D**	EPA 8260D Mod.	619690		
92537966004	**MW-31D**	EPA 8260D Mod.	619690		
92537966005	**MW-33D-295**	EPA 8260D Mod.	619690		
92537966006	**MW-33D-235**	EPA 8260D Mod.	619690		
92537966007	**MW-29D**	EPA 8260D Mod.	619690		
92537966008	**MW-30D-413**	EPA 8260D Mod.	619690		
92537966009	**MW-30D-273**	EPA 8260D Mod.	619690		
92537966010	**MW-32D**	EPA 8260D Mod.	619690		
92537966011	**MW-28D**	EPA 8260D Mod.	619690		
92537966012	**MW-36D**	EPA 8260D Mod.	619690		
92537966013	**MW-25D-130**	EPA 8260D Mod.	619690		
92537966014	**MW-25D-190**	EPA 8260D Mod.	619690		
92537966015	**DUP-20210510**	EPA 8260D Mod.	619690		
92537966016	**TRIP BLANK B**	EPA 8260D Mod.	619692		
92537966017	**MW-24D**	EPA 8260D Mod.	619692		
92537966018	**MW-45**	EPA 8260D Mod.	619692		

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: WSP VA

Project #: WO# : 92537966

92537966

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

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

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

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: 3.3, 2.1, 4.1 Correction Factor: Add/Subtract (°C) 0.0°C

1.6

Cooler Temp Corrected (°C): 3.3, 2.1, 4.1, 1.8

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

USDA Regulated Soil (☒ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

Project

WO#: 92537966

PM: BV Due Date: 05/18/21

CLIENT: 92-WSP

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	\				\	\	\	\			\		\	\	\	6									\	\			
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6	\				\	\	\	\			\		\	\	\	6									\	\			
7	\				\	\	\	\			\		\	\	\	6									\	\			
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11	\				\	\	\	\			\		\	\	\	6									\	\			
12	\				\	\	\	\			\		\	\	\	6									\	\			

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	\				\	\	\	\			\		\	\	\	6									\	\			
2	\				\	\	\	\			\		\	\	\	6									\	\			
3	\				\	\	\	\			\		\	\	\	6									\	\			
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12	\				\	\	\	\			\		\	\	\										\	\			

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY RECORD

No. 10580

wsp

WSP USA Office Address	Herndon, VA
Project Name	Kopflex Offsite
Project Location	Hanover, MD
Project Number & Task	31401545.011/1
Sampler(s) Name(s)	Molly Long
WSP USA Contact Name	Molly Long
WSP USA Contact E-mail	Molly.Long @wsp.com
WSP USA Contact Phone	703 709 6500
Sampler(s) Signature(s)	MW
Laboratory Name & Location	Pace, NC
Laboratory Project Manager	Bonnie V
Requested Turn-Around-Time	☒ Standard ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ __ HR
	92537966

Requested Analyses & Preservatives: VOC 8260D; 1,4-dioxane 8260D+SIM

	Sample Identification	Matrix	Collection Start Date	Collection Start ~~Time~~	Collection Stop ~~Date~~	Collection Stop Time	Number of Containers	VOC 8260D	1,4-dioxane 8260D+SIM	Sample Comments
A	MW-46D	AQ	5/9/21		17	30	6	X	X	001
A	MW-35D		5/10/21		08	50	6	X	X	002
A	MW-34D				09	25	6	X	X	003
B	MW-31D				09	45	6	X	X	004
A	MW-33D-295				10	15	6	X	X	005
A	MW-33D-235				10	25	6	X	X	006
B	MW-29D				10	50	6	X	X	007
B	MW-30D-413				11	05	6	X	X	008
A	MW-30D-273				11	15	6	X	X	009
A	MW-32D				11	35	6	X	X	010
B	MW-28D				12	35	6	X	X	011
B	MW-36D				12	45	6	X	X	012
A	MW-25D-130				13	10	6	X	X	013
A	MW-25D-190				13	20	6	X	X	014
A	DUP-20210510				09	00	6	X	X	015

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
[signature]	5/10/21	1200				FedEx	

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)
			[signature]	5-11-21	1140		

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

No. 10592 wsp

WSP USA Office Address	Herndon, VA
Project Name	KopFlex Offsite
Project Location	Hanover, MD
Project Number & Task	31401545.011|1
Sampler(s) Name(s)	Molly Long
WSP USA Contact Name	Molly Long
WSP USA Contact E-mail	Molly.long @wsp.com
WSP USA Contact Phone	703 709 6500
Sampler(s) Signature(s)	ML
Laboratory Name & Location	Pace, NC
Laboratory Project Manager	Bonnie V.
Requested Turn-Around-Time	☒ Standard ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ ___ HR

Requested Analyses & Preservatives: VOC 8260D; 1,4-dioxane 8260D-SIM

	Sample Identification	Matrix	Collection Start* Date	Collection Start* ~~Time~~	Collection Stop* ~~Date~~	Collection Stop* Time	Number of Containers	VOC 8260D	1,4-dioxane 8260D-SIM	Sample Comments
A	MW-25D-19~~0~~-MS	AQ	5/10/21			1320	6	X	X	MS/MSD of MW-25D-190 014
B	MW-25D-190-MSD		5/10/21			1320	6	X	X	
B	Trip Blank B		lab provided				4	X	X	016
A	MW-24D		5/10/21			1355	6	X	X	017
A	MW-45		5/10/21			1415	6	X	X	018

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
			[signature]	5-11-21	1140		

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

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

November 29, 2021

Eric Johnson
WSP USA
13530 Dulles Technology Drive
Suite 300
Herndon, VA 20171

RE: Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 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,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP

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

CERTIFICATIONS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

SAMPLE SUMMARY

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92572910001	**MW-28D**	Water	11/15/21 12:30	11/17/21 10:15
92572910002	**MW-29D**	Water	11/15/21 11:00	11/17/21 10:15
92572910003	**MW-30D-273**	Water	11/15/21 10:35	11/17/21 10:15
92572910004	**MW-30D-413**	Water	11/15/21 10:45	11/17/21 10:15
92572910005	**MW-31D**	Water	11/15/21 09:45	11/17/21 10:15
92572910006	**MW-32D**	Water	11/15/21 11:20	11/17/21 10:15
92572910007	**MW-33D-235**	Water	11/15/21 10:15	11/17/21 10:15
92572910008	**MW-33D-295**	Water	11/15/21 10:05	11/17/21 10:15
92572910009	**MW-34D**	Water	11/15/21 09:20	11/17/21 10:15
92572910010	**MW-35D**	Water	11/15/21 09:05	11/17/21 10:15
92572910011	**MW-36D**	Water	11/15/21 12:40	11/17/21 10:15
92572910016	**TRIP BLANK A**	Water	11/15/21 00:00	11/17/21 10:15

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

SAMPLE ANALYTE COUNT

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92572910001	**MW-28D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910002	**MW-29D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910003	**MW-30D-273**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910004	**MW-30D-413**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910005	**MW-31D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910006	**MW-32D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910007	**MW-33D-235**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910008	**MW-33D-295**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910009	**MW-34D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910010	**MW-35D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910011	**MW-36D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910016	**TRIP BLANK A**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-28D **Lab ID: 92572910001** Collected: 11/15/21 12:30 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 08:30	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 08:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 08:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 08:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 08:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 08:30	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 08:30	74-83-9	v2,v3
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 08:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 08:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 08:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 08:30	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 08:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 08:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 08:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 08:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 08:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 08:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 08:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 08:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 08:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 08:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 08:30	107-06-2	
1,1-Dichloroethene	**8.1**	ug/L	1.0	1		11/19/21 08:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 08:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 08:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 08:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 08:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 08:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 08:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 08:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 08:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 08:30	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 08:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 08:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 08:30	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-28D **Lab ID: 92572910001** Collected: 11/15/21 12:30 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 08:30	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 08:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 08:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 08:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 08:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 08:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 08:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 08:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 08:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 08:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 08:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 08:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 08:30	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/19/21 08:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 08:30	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**5.1**	ug/L	2.0	1		11/17/21 17:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/17/21 17:08	17060-07-0	
Toluene-d8 (S)	91	%	66-133	1		11/17/21 17:08	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-29D **Lab ID: 92572910002** Collected: 11/15/21 11:00 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 08:48	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 08:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 08:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 08:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 08:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 08:48	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 08:48	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 08:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 08:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 08:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 08:48	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 08:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 08:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 08:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 08:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 08:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 08:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 08:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 08:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 08:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 08:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 08:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 08:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 08:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 08:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 08:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 08:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 08:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 08:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 08:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 08:48	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 08:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 08:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 08:48	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-29D **Lab ID: 92572910002** Collected: 11/15/21 11:00 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 08:48	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 08:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 08:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 08:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 08:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 08:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 08:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 08:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 08:48	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 08:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 08:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 08:48	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/19/21 08:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/19/21 08:48	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 08:48	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 17:27	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		11/17/21 17:27	17060-07-0	
Toluene-d8 (S)	88	%	66-133	1		11/17/21 17:27	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-30D-273 **Lab ID: 92572910003** Collected: 11/15/21 10:35 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 09:06	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 09:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 09:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 09:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 09:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 09:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 09:06	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 09:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 09:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 09:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 09:06	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 09:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 09:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 09:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 09:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 09:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 09:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 09:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 09:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 09:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 09:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 09:06	107-06-2	
1,1-Dichloroethene	**34.1**	ug/L	1.0	1		11/19/21 09:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 09:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 09:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 09:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 09:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 09:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 09:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 09:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 09:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 09:06	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 09:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:06	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-30D-273 **Lab ID: 92572910003** Collected: 11/15/21 10:35 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 09:06	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 09:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:06	120-82-1	
1,1,1-Trichloroethane	**1.4**	ug/L	1.0	1		11/19/21 09:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 09:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 09:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 09:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 09:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 09:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 09:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 09:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 09:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 09:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 09:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/19/21 09:06	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 09:06	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**16.6**	ug/L	2.0	1		11/17/21 21:41	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		11/17/21 21:41	17060-07-0	
Toluene-d8 (S)	102	%	66-133	1		11/17/21 21:41	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-30D-413 **Lab ID: 92572910004** Collected: 11/15/21 10:45 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 09:24	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 09:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 09:24	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 09:24	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 09:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 09:24	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 09:24	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 09:24	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 09:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 09:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 09:24	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 09:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 09:24	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 09:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 09:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 09:24	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 09:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 09:24	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 09:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 09:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 09:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 09:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:24	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 09:24	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 09:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 09:24	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 09:24	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 09:24	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 09:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 09:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 09:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 09:24	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 09:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:24	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-30D-413 **Lab ID: 92572910004** Collected: 11/15/21 10:45 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 09:24	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 09:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 09:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 09:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 09:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 09:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 09:24	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 09:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 09:24	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 09:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 09:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 09:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 09:24	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/19/21 09:24	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		11/19/21 09:24	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 17:46	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/17/21 17:46	17060-07-0	
Toluene-d8 (S)	91	%	66-133	1		11/17/21 17:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-31D **Lab ID: 92572910005** Collected: 11/15/21 09:45 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 09:43	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 09:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 09:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 09:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 09:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 09:43	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 09:43	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 09:43	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 09:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 09:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 09:43	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 09:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 09:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 09:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 09:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 09:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 09:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 09:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 09:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 09:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 09:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 09:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 09:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 09:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 09:43	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 09:43	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 09:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 09:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 09:43	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 09:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 09:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 09:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 09:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 09:43	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 09:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:43	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-31D **Lab ID: 92572910005** Collected: 11/15/21 09:45 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 09:43	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 09:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 09:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 09:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 09:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 09:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 09:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 09:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 09:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 09:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 09:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 09:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 09:43	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/19/21 09:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/19/21 09:43	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 09:43	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 18:05	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/17/21 18:05	17060-07-0	
Toluene-d8 (S)	87	%	66-133	1		11/17/21 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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-32D **Lab ID: 92572910006** Collected: 11/15/21 11:20 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 10:01	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 10:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 10:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 10:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 10:01	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 10:01	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 10:01	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 10:01	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 10:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 10:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 10:01	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 10:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 10:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 10:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 10:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 10:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 10:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 10:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:01	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 10:01	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 10:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 10:01	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 10:01	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 10:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 10:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 10:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 10:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 10:01	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 10:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:01	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-32D **Lab ID: 92572910006** Collected: 11/15/21 11:20 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 10:01	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 10:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 10:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 10:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 10:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 10:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 10:01	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 10:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 10:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 10:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/19/21 10:01	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/19/21 10:01	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 10:01	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 18:25	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		11/17/21 18:25	17060-07-0	
Toluene-d8 (S)	88	%	66-133	1		11/17/21 18:25	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-33D-235 **Lab ID: 92572910007** Collected: 11/15/21 10:15 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 10:19	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 10:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 10:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 10:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 10:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 10:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 10:19	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 10:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 10:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 10:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 10:19	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 10:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 10:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 10:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 10:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 10:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 10:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 10:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 10:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 10:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 10:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 10:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 10:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 10:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 10:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 10:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 10:19	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:19	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-33D-235 **Lab ID: 92572910007** Collected: 11/15/21 10:15 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 10:19	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 10:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 10:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 10:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 10:19	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 10:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 10:19	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 10:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 10:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 10:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 10:19	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/19/21 10:19	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 10:19	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 18:44	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		11/17/21 18:44	17060-07-0	
Toluene-d8 (S)	90	%	66-133	1		11/17/21 18:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-33D-295 **Lab ID: 92572910008** Collected: 11/15/21 10:05 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 10:38	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 10:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 10:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 10:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 10:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 10:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 10:38	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 10:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 10:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 10:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 10:38	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 10:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 10:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 10:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 10:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 10:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 10:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 10:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:38	107-06-2	
1,1-Dichloroethene	**4.2**	ug/L	1.0	1		11/19/21 10:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 10:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 10:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 10:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 10:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 10:38	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 10:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 10:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 10:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 10:38	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 10:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:38	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-33D-295 **Lab ID: 92572910008** Collected: 11/15/21 10:05 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 10:38	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 10:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 10:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 10:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 10:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 10:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 10:38	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 10:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 10:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 10:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 10:38	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/19/21 10:38	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		11/19/21 10:38	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**6.1**	ug/L	2.0	1		11/17/21 19:03	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		11/17/21 19:03	17060-07-0	
Toluene-d8 (S)	91	%	66-133	1		11/17/21 19:03	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-34D **Lab ID: 92572910009** Collected: 11/15/21 09:20 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 10:56	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 10:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 10:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 10:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 10:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 10:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 10:56	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 10:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 10:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 10:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 10:56	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 10:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 10:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 10:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 10:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 10:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 10:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 10:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 10:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 10:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 10:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 10:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 10:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 10:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 10:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 10:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 10:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 10:56	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 10:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 10:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 10:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 10:56	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 10:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:56	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-34D **Lab ID: 92572910009** Collected: 11/15/21 09:20 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 10:56	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 10:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 10:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 10:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 10:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 10:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 10:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 10:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 10:56	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 10:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 10:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 10:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/19/21 10:56	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/19/21 10:56	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		11/19/21 10:56	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 19:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/17/21 19:22	17060-07-0	
Toluene-d8 (S)	93	%	66-133	1		11/17/21 19:22	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-35D **Lab ID: 92572910010** Collected: 11/15/21 09:05 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 11:14	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 11:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 11:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 11:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 11:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 11:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 11:14	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 11:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 11:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 11:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 11:14	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 11:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 11:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 11:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 11:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 11:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 11:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 11:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 11:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 11:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 11:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 11:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 11:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 11:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 11:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 11:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 11:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 11:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 11:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 11:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 11:14	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 11:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:14	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-35D **Lab ID: 92572910010** Collected: 11/15/21 09:05 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 11:14	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 11:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 11:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 11:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 11:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 11:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 11:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 11:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 11:14	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 11:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 11:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 11:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 11:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/19/21 11:14	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 11:14	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 19:41	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/17/21 19:41	17060-07-0	
Toluene-d8 (S)	88	%	66-133	1		11/17/21 19:41	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-36D **Lab ID: 92572910011** Collected: 11/15/21 12:40 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 11:32	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 11:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 11:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 11:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 11:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 11:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 11:32	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 11:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 11:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 11:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 11:32	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 11:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 11:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 11:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 11:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 11:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 11:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 11:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 11:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 11:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 11:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 11:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 11:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 11:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 11:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 11:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 11:32	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 11:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 11:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 11:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 11:32	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 11:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:32	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: MW-36D **Lab ID: 92572910011** Collected: 11/15/21 12:40 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 11:32	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 11:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 11:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 11:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 11:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 11:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 11:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 11:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 11:32	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 11:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 11:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 11:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 11:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/19/21 11:32	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 11:32	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 20:00	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		11/17/21 20:00	17060-07-0	
Toluene-d8 (S)	88	%	66-133	1		11/17/21 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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: TRIP BLANK A **Lab ID: 92572910016** Collected: 11/15/21 00:00 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 08:11	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 08:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 08:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 08:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 08:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 08:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 08:11	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 08:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 08:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 08:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 08:11	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 08:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 08:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 08:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 08:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 08:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 08:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 08:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 08:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 08:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 08:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 08:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 08:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 08:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 08:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 08:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 08:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 08:11	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 08:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 08:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 08:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 08:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 08:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 08:11	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 08:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 08:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 08:11	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Sample: TRIP BLANK A **Lab ID: 92572910016** Collected: 11/15/21 00:00 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 08:11	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 08:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 08:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 08:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 08:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 08:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 08:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 08:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 08:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 08:11	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 08:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 08:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 08:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/19/21 08:11	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/19/21 08:11	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		11/19/21 08:11	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 16:49	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		11/17/21 16:49	17060-07-0	
Toluene-d8 (S)	93	%	66-133	1		11/17/21 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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

QC Batch: 660597 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92572910001, 92572910002, 92572910003, 92572910004, 92572910005, 92572910006, 92572910007, 92572910008, 92572910009, 92572910010, 92572910011, 92572910016

METHOD BLANK: 3461390 Matrix: Water
Associated Lab Samples: 92572910001, 92572910002, 92572910003, 92572910004, 92572910005, 92572910006, 92572910007, 92572910008, 92572910009, 92572910010, 92572910011, 92572910016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/19/21 07:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,3-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
2,2-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
2-Butanone (MEK)	ug/L	ND	5.0	11/19/21 07:53	
2-Chlorotoluene	ug/L	ND	1.0	11/19/21 07:53	
2-Hexanone	ug/L	ND	5.0	11/19/21 07:53	
4-Chlorotoluene	ug/L	ND	1.0	11/19/21 07:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/19/21 07:53	
Acetone	ug/L	ND	25.0	11/19/21 07:53	
Benzene	ug/L	ND	1.0	11/19/21 07:53	
Bromobenzene	ug/L	ND	1.0	11/19/21 07:53	
Bromochloromethane	ug/L	ND	1.0	11/19/21 07:53	
Bromodichloromethane	ug/L	ND	1.0	11/19/21 07:53	
Bromoform	ug/L	ND	1.0	11/19/21 07:53	
Bromomethane	ug/L	ND	2.0	11/19/21 07:53	v2
Carbon tetrachloride	ug/L	ND	1.0	11/19/21 07:53	
Chlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
Chloroethane	ug/L	ND	1.0	11/19/21 07:53	IK,IL
Chloroform	ug/L	ND	1.0	11/19/21 07:53	
Chloromethane	ug/L	ND	1.0	11/19/21 07:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
Dibromochloromethane	ug/L	ND	1.0	11/19/21 07:53	

Results presented on this page are in the units indicated by the "Units" column except where 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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QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

METHOD BLANK: 3461390 Matrix: Water

Associated Lab Samples: 92572910001, 92572910002, 92572910003, 92572910004, 92572910005, 92572910006, 92572910007, 92572910008, 92572910009, 92572910010, 92572910011, 92572910016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	11/19/21 07:53	
Dichlorodifluoromethane	ug/L	ND	1.0	11/19/21 07:53	
Diisopropyl ether	ug/L	ND	1.0	11/19/21 07:53	
Ethylbenzene	ug/L	ND	1.0	11/19/21 07:53	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/19/21 07:53	
m&p-Xylene	ug/L	ND	2.0	11/19/21 07:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/19/21 07:53	
Methylene Chloride	ug/L	ND	5.0	11/19/21 07:53	
Naphthalene	ug/L	ND	1.0	11/19/21 07:53	
o-Xylene	ug/L	ND	1.0	11/19/21 07:53	
p-Isopropyltoluene	ug/L	ND	1.0	11/19/21 07:53	
Styrene	ug/L	ND	1.0	11/19/21 07:53	
Tetrachloroethene	ug/L	ND	1.0	11/19/21 07:53	
Toluene	ug/L	ND	1.0	11/19/21 07:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
Trichloroethene	ug/L	ND	1.0	11/19/21 07:53	
Trichlorofluoromethane	ug/L	ND	1.0	11/19/21 07:53	
Vinyl acetate	ug/L	ND	2.0	11/19/21 07:53	
Vinyl chloride	ug/L	ND	1.0	11/19/21 07:53	
Xylene (Total)	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/19/21 07:53	
4-Bromofluorobenzene (S)	%	100	70-130	11/19/21 07:53	
Toluene-d8 (S)	%	103	70-130	11/19/21 07:53	

LABORATORY CONTROL SAMPLE: 3461391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.1	98	70-130	
1,1,1-Trichloroethane	ug/L	50	46.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	70-130	
1,1,2-Trichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethene	ug/L	50	47.4	95	70-132	
1,1-Dichloropropene	ug/L	50	46.1	92	70-131	
1,2,3-Trichlorobenzene	ug/L	50	52.8	106	70-134	
1,2,3-Trichloropropane	ug/L	50	48.2	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,2-Dichloroethane	ug/L	50	44.9	90	70-130	
1,2-Dichloropropane	ug/L	50	47.4	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

LABORATORY CONTROL SAMPLE: 3461391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,3-Dichloropropane	ug/L	50	48.1	96	70-130	
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
2,2-Dichloropropane	ug/L	50	51.4	103	70-130	
2-Butanone (MEK)	ug/L	100	93.3	93	70-133	
2-Chlorotoluene	ug/L	50	47.9	96	70-130	
2-Hexanone	ug/L	100	98.9	99	70-130	
4-Chlorotoluene	ug/L	50	47.0	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.5	94	70-130	
Acetone	ug/L	100	93.4	93	70-144	
Benzene	ug/L	50	47.1	94	70-130	
Bromobenzene	ug/L	50	48.6	97	70-130	
Bromochloromethane	ug/L	50	48.8	98	70-130	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	49.9	100	70-131	
Bromomethane	ug/L	50	46.8	94	30-177	v3
Carbon tetrachloride	ug/L	50	47.8	96	70-130	
Chlorobenzene	ug/L	50	48.5	97	70-130	
Chloroethane	ug/L	50	30.3	61	46-131	IK,IL
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	40.8	82	49-130	
cis-1,2-Dichloroethene	ug/L	50	46.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Dibromochloromethane	ug/L	50	50.2	100	70-130	
Dibromomethane	ug/L	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/L	50	43.1	86	52-134	
Diisopropyl ether	ug/L	50	45.2	90	70-131	
Ethylbenzene	ug/L	50	48.6	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.2	104	70-131	
m&p-Xylene	ug/L	100	98.8	99	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	70-130	
Methylene Chloride	ug/L	50	43.6	87	68-130	
Naphthalene	ug/L	50	52.6	105	70-133	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	49.5	99	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	46.2	92	70-130	
Toluene	ug/L	50	46.5	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Trichloroethene	ug/L	50	47.2	94	70-130	
Trichlorofluoromethane	ug/L	50	40.3	81	61-130	
Vinyl acetate	ug/L	100	108	108	70-140	
Vinyl chloride	ug/L	50	45.4	91	59-142	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

LABORATORY CONTROL SAMPLE: 3461391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461392 3461393

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.9	20.9	109	104	70-135	5	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.3	22.0	111	110	70-148	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.7	21.3	113	107	70-131	6	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.3	21.5	111	107	70-136	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	22.7	22.4	114	112	70-147	2	30	
1,1-Dichloroethene	ug/L	8.1	20	20	29.0	31.4	104	116	70-158	8	30	
1,1-Dichloropropene	ug/L	ND	20	20	22.4	21.9	112	109	70-149	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.1	22.7	116	113	68-140	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.5	21.7	112	109	67-137	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.9	22.2	115	111	70-139	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.1	21.4	110	107	69-136	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.7	21.5	113	107	70-137	5	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.5	21.5	113	108	70-133	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	21.2	20.2	106	101	67-138	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	21.9	112	110	70-138	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.1	21.4	115	107	70-133	8	30	
1,3-Dichloropropane	ug/L	ND	20	20	22.6	21.7	113	108	70-136	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	23.2	22.1	116	110	70-133	5	30	
2,2-Dichloropropane	ug/L	ND	20	20	27.8	27.6	139	138	52-155	1	30	
2-Butanone (MEK)	ug/L	ND	40	40	44.2	42.6	111	107	61-147	4	30	
2-Chlorotoluene	ug/L	ND	20	20	24.2	23.1	121	116	70-141	5	30	
2-Hexanone	ug/L	ND	40	40	50.8	48.4	127	121	67-139	5	30	
4-Chlorotoluene	ug/L	ND	20	20	23.1	22.2	116	111	70-135	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	47.2	45.9	118	115	67-136	3	30	
Acetone	ug/L	ND	40	40	43.1	42.1	108	105	55-159	2	30	
Benzene	ug/L	ND	20	20	23.0	22.0	115	110	67-150	4	30	
Bromobenzene	ug/L	ND	20	20	22.3	21.8	112	109	70-134	2	30	
Bromochloromethane	ug/L	ND	20	20	22.2	21.5	111	108	70-146	3	30	
Bromodichloromethane	ug/L	ND	20	20	21.7	21.0	108	105	70-138	3	30	
Bromoform	ug/L	ND	20	20	19.9	19.1	100	96	57-138	4	30	
Bromomethane	ug/L	ND	20	20	22.8	23.4	114	117	10-200	2	30	v3
Carbon tetrachloride	ug/L	ND	20	20	23.1	22.7	116	113	70-147	2	30	
Chlorobenzene	ug/L	ND	20	20	22.8	21.9	114	110	70-137	4	30	
Chloroethane	ug/L	ND	20	20	20.9	20.7	104	103	51-166	1	30	IK,IL
Chloroform	ug/L	ND	20	20	22.5	22.0	112	110	70-144	2	30	
Chloromethane	ug/L	ND	20	20	18.6	18.3	93	91	24-161	2	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.1	21.9	110	109	67-148	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.9	21.9	114	109	70-142	4	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461392 3461393

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromochloromethane	ug/L	ND	20	20	21.8	20.8	109	104	68-138	5	30	
Dibromomethane	ug/L	ND	20	20	22.0	21.5	110	107	70-134	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	20.1	101	100	43-155	1	30	
Diisopropyl ether	ug/L	ND	20	20	21.2	20.5	106	102	65-146	3	30	
Ethylbenzene	ug/L	ND	20	20	23.4	22.5	117	113	68-143	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.9	22.5	114	112	62-151	2	30	
m&p-Xylene	ug/L	ND	40	40	47.5	45.7	119	114	53-157	4	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.3	20.3	106	102	59-156	5	30	
Methylene Chloride	ug/L	ND	20	20	20.3	19.8	101	99	64-148	2	30	
Naphthalene	ug/L	ND	20	20	23.3	22.3	116	112	57-150	4	30	
o-Xylene	ug/L	ND	20	20	23.2	21.9	116	110	68-143	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	24.0	23.0	120	115	70-141	5	30	
Styrene	ug/L	ND	20	20	23.1	21.9	115	110	70-136	5	30	
Tetrachloroethene	ug/L	ND	20	20	21.1	20.4	106	102	70-139	3	30	
Toluene	ug/L	ND	20	20	22.7	22.0	114	110	47-157	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.1	21.7	115	108	70-149	6	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	22.8	116	114	70-138	2	30	
Trichloroethene	ug/L	ND	20	20	22.7	22.3	113	112	70-149	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	20.2	20.3	101	101	61-154	0	30	
Vinyl acetate	ug/L	ND	40	40	47.5	45.3	119	113	48-156	5	30	
Vinyl chloride	ug/L	ND	20	20	22.5	22.2	112	111	55-172	1	30	
Xylene (Total)	ug/L	ND	60	60	70.6	67.7	118	113	66-145	4	30	
1,2-Dichloroethane-d4 (S)	%						96	93	70-130			
4-Bromofluorobenzene (S)	%						102	101	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

QC Batch: 660613
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92572910001, 92572910002, 92572910004, 92572910005, 92572910006, 92572910007, 92572910008, 92572910009, 92572910010, 92572910011, 92572910016

METHOD BLANK: 3461559 Matrix: Water
Associated Lab Samples: 92572910001, 92572910002, 92572910004, 92572910005, 92572910006, 92572910007, 92572910008, 92572910009, 92572910010, 92572910011, 92572910016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/17/21 16:11	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/17/21 16:11	
Toluene-d8 (S)	%	90	66-133	11/17/21 16:11	

LABORATORY CONTROL SAMPLE: 3461560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
Toluene-d8 (S)	%			91	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461561 3461562

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	5.1	20	20	25.1	23.3	100	91	64-141	7	30	
1,2-Dichloroethane-d4 (S)	%						92	96	70-130		30	
Toluene-d8 (S)	%						85	87	66-133		30	

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

QC Batch: 660615
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92572910003

METHOD BLANK: 3461571 Matrix: Water
Associated Lab Samples: 92572910003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/17/21 16:12	
1,2-Dichloroethane-d4 (S)	%	102	70-130	11/17/21 16:12	
Toluene-d8 (S)	%	102	66-133	11/17/21 16:12	

LABORATORY CONTROL SAMPLE: 3461572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
Toluene-d8 (S)	%			102	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461573 3461574

Parameter	Units	92572915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.8	19.5	104	98	64-141	6	30	
1,2-Dichloroethane-d4 (S)	%						101	98	70-130		30	
Toluene-d8 (S)	%						100	99	66-133		30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALIFIERS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92572910001	**MW-28D**	EPA 8260D	660597		
92572910002	**MW-29D**	EPA 8260D	660597		
92572910003	**MW-30D-273**	EPA 8260D	660597		
92572910004	**MW-30D-413**	EPA 8260D	660597		
92572910005	**MW-31D**	EPA 8260D	660597		
92572910006	**MW-32D**	EPA 8260D	660597		
92572910007	**MW-33D-235**	EPA 8260D	660597		
92572910008	**MW-33D-295**	EPA 8260D	660597		
92572910009	**MW-34D**	EPA 8260D	660597		
92572910010	**MW-35D**	EPA 8260D	660597		
92572910011	**MW-36D**	EPA 8260D	660597		
92572910016	**TRIP BLANK A**	EPA 8260D	660597		
92572910001	**MW-28D**	EPA 8260D Mod.	660613		
92572910002	**MW-29D**	EPA 8260D Mod.	660613		
92572910003	**MW-30D-273**	EPA 8260D Mod.	660615		
92572910004	**MW-30D-413**	EPA 8260D Mod.	660613		
92572910005	**MW-31D**	EPA 8260D Mod.	660613		
92572910006	**MW-32D**	EPA 8260D Mod.	660613		
92572910007	**MW-33D-235**	EPA 8260D Mod.	660613		
92572910008	**MW-33D-295**	EPA 8260D Mod.	660613		
92572910009	**MW-34D**	EPA 8260D Mod.	660613		
92572910010	**MW-35D**	EPA 8260D Mod.	660613		
92572910011	**MW-36D**	EPA 8260D Mod.	660613		
92572910016	**TRIP BLANK A**	EPA 8260D Mod.	660613		

CHAIN-OF-CUSTODY RECORD

WO# : 92572910

92572910

WSP USA Office Address	13530 Dulles Technology Dr Ste 300 Herndon VA
Project Name	Kop-flex Offsite
WSP USA Contact Name	Eric Johnson
Project Location	Hanover MD
WSP USA Contact E-mail	eric.johnson@wsp.com
Project Number & Task	31401545.011
WSP USA Contact Phone	(703) 709-6500
Sampler(s) Name(s)	Molly Long Elliott Martynkiewicz
Sampler(s) Signature(s)	
Pace NC	
Laboratory Project Manager	Bonnie Vang
Requested Turn-Around-Time	[X] Standard [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

	Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	Requested Analyses & Preservatives: VOC 8260D	1,4-Dioxane 8260D+SIM	Sample Comments
	~~MW-25D-130~~	AQ	11/15/21					X	X	92572910
	~~MW-25D-190~~	AQ	11/15/21					X	X	
A	MW-28D	AQ	11/15/21	1230			6	X	X	001
A	MW-29D	AQ	11/15/21	1100			6	X	X	002
A	MW-30D-273	AQ	11/15/21	1035			6	X	X	003
A	MW-30D-413	AQ	11/15/21	1045			6	X	X	004
A	MW-31D	AQ	11/15/21	0945			6	X	X	005
A	MW-32D	AQ	11/15/21	1120			6	X	X	006
A	MW-33D-235	AQ	11/15/21	1015			6	X	X	007
A	MW-33D-295	AQ	11/15/21	1005			6	X	X	008
A	MW-34D	AQ	11/15/21	0920			6	X	X	009
A	MW-35D	AQ	11/15/21	0905			6	X	X	010
A	MW-36D	AQ	11/15/21	1240			6	X	X	011
A	Trip Blnk A	~~AQ~~	Lab	provided			4	X	X	
										016

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
	11/15/21	1426	JKL PaceHVL	11/17/21	1015		
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

P2

***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#: 92572910

PM: BV Due Date: 11/30/21

CLIENT: 92-WSP

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)	BP4B-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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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																6													
4																6													
5																6													
6																6													
7																6													
8																6													
9																6													
10																6													
11																6													
12																4													

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.

PM 233

***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)	BP4B-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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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																6													
4																6													
5																													
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7																													
8																													
9																													
10																													
11																													
12																													

MW-469

pH Adjustment Log for Preserved Samples

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

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

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

November 29, 2021

Eric Johnson
WSP USA
13530 Dulles Technology Drive
Suite 300
Herndon, VA 20171

RE: Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory between November 17, 2021 and November 29, 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,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP

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

CERTIFICATIONS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

SAMPLE SUMMARY

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92574598001	**Placeholder**	Water		11/29/21 16:13
92572910013	**MW-45**	Water	11/15/21 13:10	11/17/21 10:15
92572910014	**MW-24D**	Water	11/15/21 13:25	11/17/21 10:15
92572910015	**DUP-111521**	Water	11/15/21 12:00	11/17/21 10:15

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

SAMPLE ANALYTE COUNT

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92572910013	**MW-45**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910014	**MW-24D**	EPA 8260D	NSCQ	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C
92572910015	**DUP-111521**	EPA 8260D	NSCQ	63	PASI-C
		EPA 8260D Mod.	LMB	3	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Sample: MW-45 **Lab ID: 92572910013** Collected: 11/15/21 13:10 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 11:51	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 11:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 11:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 11:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 11:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 11:51	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 11:51	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 11:51	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 11:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 11:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 11:51	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 11:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 11:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 11:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 11:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 11:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 11:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 11:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 11:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 11:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/19/21 11:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 11:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 11:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 11:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 11:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 11:51	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 11:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 11:51	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 11:51	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 11:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 11:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 11:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 11:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 11:51	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 11:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:51	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Sample: MW-45 **Lab ID: 92572910013** Collected: 11/15/21 13:10 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 11:51	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 11:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 11:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/19/21 11:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 11:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 11:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 11:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 11:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 11:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 11:51	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 11:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 11:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 11:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 11:51	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/19/21 11:51	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/19/21 11:51	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/17/21 20:20	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/17/21 20:20	17060-07-0	
Toluene-d8 (S)	89	%	66-133	1		11/17/21 20:20	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Sample: MW-24D **Lab ID: 92572910014** Collected: 11/15/21 13:25 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	250	10		11/22/21 19:59	67-64-1	R1
Benzene	ND	ug/L	10.0	10		11/22/21 19:59	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		11/22/21 19:59	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		11/22/21 19:59	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		11/22/21 19:59	75-27-4	
Bromoform	ND	ug/L	10.0	10		11/22/21 19:59	75-25-2	
Bromomethane	ND	ug/L	20.0	10		11/22/21 19:59	74-83-9	R1
2-Butanone (MEK)	ND	ug/L	50.0	10		11/22/21 19:59	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		11/22/21 19:59	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		11/22/21 19:59	108-90-7	
Chloroethane	ND	ug/L	10.0	10		11/22/21 19:59	75-00-3	
Chloroform	ND	ug/L	10.0	10		11/22/21 19:59	67-66-3	
Chloromethane	ND	ug/L	10.0	10		11/22/21 19:59	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		11/22/21 19:59	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		11/22/21 19:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		11/22/21 19:59	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		11/22/21 19:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		11/22/21 19:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		11/22/21 19:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		11/22/21 19:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		11/22/21 19:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		11/22/21 19:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		11/22/21 19:59	75-71-8	
1,1-Dichloroethane	**142**	ug/L	10.0	10		11/22/21 19:59	75-34-3	M1,R1
1,2-Dichloroethane	ND	ug/L	10.0	10		11/22/21 19:59	107-06-2	
1,1-Dichloroethene	**1300**	ug/L	10.0	10		11/22/21 19:59	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		11/22/21 19:59	156-59-2	R1
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		11/22/21 19:59	156-60-5	R1
1,2-Dichloropropane	ND	ug/L	10.0	10		11/22/21 19:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		11/22/21 19:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		11/22/21 19:59	594-20-7	R1
1,1-Dichloropropene	ND	ug/L	10.0	10		11/22/21 19:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		11/22/21 19:59	10061-01-5	v1
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		11/22/21 19:59	10061-02-6	v1
Diisopropyl ether	ND	ug/L	10.0	10		11/22/21 19:59	108-20-3	R1
Ethylbenzene	ND	ug/L	10.0	10		11/22/21 19:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	10		11/22/21 19:59	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		11/22/21 19:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		11/22/21 19:59	99-87-6	
Methylene Chloride	ND	ug/L	50.0	10		11/22/21 19:59	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		11/22/21 19:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		11/22/21 19:59	1634-04-4	R1
Naphthalene	ND	ug/L	10.0	10		11/22/21 19:59	91-20-3	
Styrene	ND	ug/L	10.0	10		11/22/21 19:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		11/22/21 19:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		11/22/21 19:59	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Sample: MW-24D **Lab ID: 92572910014** Collected: 11/15/21 13:25 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	10.0	10		11/22/21 19:59	127-18-4	
Toluene	ND	ug/L	10.0	10		11/22/21 19:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		11/22/21 19:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		11/22/21 19:59	120-82-1	
1,1,1-Trichloroethane	**16.1**	ug/L	10.0	10		11/22/21 19:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		11/22/21 19:59	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		11/22/21 19:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		11/22/21 19:59	75-69-4	R1
1,2,3-Trichloropropane	ND	ug/L	10.0	10		11/22/21 19:59	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		11/22/21 19:59	108-05-4	R1
Vinyl chloride	ND	ug/L	10.0	10		11/22/21 19:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	10		11/22/21 19:59	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		11/22/21 19:59	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		11/22/21 19:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	10		11/22/21 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	10		11/22/21 19:59	17060-07-0	
Toluene-d8 (S)	105	%	70-130	10		11/22/21 19:59	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**475**	ug/L	20.0	10		11/18/21 19:24	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	10		11/18/21 19:24	17060-07-0	
Toluene-d8 (S)	86	%	66-133	10		11/18/21 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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Sample: DUP-111521 **Lab ID: 92572910015** Collected: 11/15/21 12:00 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	250	10		11/29/21 15:16	67-64-1	
Benzene	ND	ug/L	10.0	10		11/29/21 15:16	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		11/29/21 15:16	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		11/29/21 15:16	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		11/29/21 15:16	75-27-4	
Bromoform	ND	ug/L	10.0	10		11/29/21 15:16	75-25-2	
Bromomethane	ND	ug/L	20.0	10		11/29/21 15:16	74-83-9	v1
2-Butanone (MEK)	ND	ug/L	50.0	10		11/29/21 15:16	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		11/29/21 15:16	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		11/29/21 15:16	108-90-7	
Chloroethane	ND	ug/L	10.0	10		11/29/21 15:16	75-00-3	L1,M0, v1
Chloroform	ND	ug/L	10.0	10		11/29/21 15:16	67-66-3	
Chloromethane	ND	ug/L	10.0	10		11/29/21 15:16	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		11/29/21 15:16	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		11/29/21 15:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		11/29/21 15:16	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		11/29/21 15:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		11/29/21 15:16	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		11/29/21 15:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		11/29/21 15:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		11/29/21 15:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		11/29/21 15:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		11/29/21 15:16	75-71-8	
1,1-Dichloroethane	**197**	ug/L	10.0	10		11/29/21 15:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		11/29/21 15:16	107-06-2	
1,1-Dichloroethene	**1800**	ug/L	10.0	10		11/29/21 15:16	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		11/29/21 15:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		11/29/21 15:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		11/29/21 15:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		11/29/21 15:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		11/29/21 15:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		11/29/21 15:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		11/29/21 15:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		11/29/21 15:16	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		11/29/21 15:16	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		11/29/21 15:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	10		11/29/21 15:16	87-68-3	IH,v1
2-Hexanone	ND	ug/L	50.0	10		11/29/21 15:16	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		11/29/21 15:16	99-87-6	
Methylene Chloride	ND	ug/L	50.0	10		11/29/21 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		11/29/21 15:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		11/29/21 15:16	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		11/29/21 15:16	91-20-3	
Styrene	ND	ug/L	10.0	10		11/29/21 15:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		11/29/21 15:16	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Sample: DUP-111521 **Lab ID: 92572910015** Collected: 11/15/21 12:00 Received: 11/17/21 10:15 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							
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		11/29/21 15:16	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		11/29/21 15:16	127-18-4	
Toluene	ND	ug/L	10.0	10		11/29/21 15:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		11/29/21 15:16	87-61-6	R1
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		11/29/21 15:16	120-82-1	
1,1,1-Trichloroethane	**15.1**	ug/L	10.0	10		11/29/21 15:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		11/29/21 15:16	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		11/29/21 15:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		11/29/21 15:16	75-69-4	M1,v1
1,2,3-Trichloropropane	ND	ug/L	10.0	10		11/29/21 15:16	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		11/29/21 15:16	108-05-4	v1
Vinyl chloride	ND	ug/L	10.0	10		11/29/21 15:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	10		11/29/21 15:16	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		11/29/21 15:16	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		11/29/21 15:16	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	10		11/29/21 15:16	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	10		11/29/21 15:16	17060-07-0	
Toluene-d8 (S)	106	%	70-130	10		11/29/21 15:16	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**396**	ug/L	20.0	10		11/18/21 19:43	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	10		11/18/21 19:43	17060-07-0	
Toluene-d8 (S)	89	%	66-133	10		11/18/21 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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

QC Batch: 660597
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92572910013

METHOD BLANK: 3461390 Matrix: Water
Associated Lab Samples: 92572910013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/19/21 07:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,3-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
2,2-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
2-Butanone (MEK)	ug/L	ND	5.0	11/19/21 07:53	
2-Chlorotoluene	ug/L	ND	1.0	11/19/21 07:53	
2-Hexanone	ug/L	ND	5.0	11/19/21 07:53	
4-Chlorotoluene	ug/L	ND	1.0	11/19/21 07:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/19/21 07:53	
Acetone	ug/L	ND	25.0	11/19/21 07:53	
Benzene	ug/L	ND	1.0	11/19/21 07:53	
Bromobenzene	ug/L	ND	1.0	11/19/21 07:53	
Bromochloromethane	ug/L	ND	1.0	11/19/21 07:53	
Bromodichloromethane	ug/L	ND	1.0	11/19/21 07:53	
Bromoform	ug/L	ND	1.0	11/19/21 07:53	
Bromomethane	ug/L	ND	2.0	11/19/21 07:53	v2
Carbon tetrachloride	ug/L	ND	1.0	11/19/21 07:53	
Chlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
Chloroethane	ug/L	ND	1.0	11/19/21 07:53	IK,IL
Chloroform	ug/L	ND	1.0	11/19/21 07:53	
Chloromethane	ug/L	ND	1.0	11/19/21 07:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
Dibromochloromethane	ug/L	ND	1.0	11/19/21 07:53	
Dibromomethane	ug/L	ND	1.0	11/19/21 07:53	

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

METHOD BLANK: 3461390 Matrix: Water
Associated Lab Samples: 92572910013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/19/21 07:53	
Diisopropyl ether	ug/L	ND	1.0	11/19/21 07:53	
Ethylbenzene	ug/L	ND	1.0	11/19/21 07:53	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/19/21 07:53	
m&p-Xylene	ug/L	ND	2.0	11/19/21 07:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/19/21 07:53	
Methylene Chloride	ug/L	ND	5.0	11/19/21 07:53	
Naphthalene	ug/L	ND	1.0	11/19/21 07:53	
o-Xylene	ug/L	ND	1.0	11/19/21 07:53	
p-Isopropyltoluene	ug/L	ND	1.0	11/19/21 07:53	
Styrene	ug/L	ND	1.0	11/19/21 07:53	
Tetrachloroethene	ug/L	ND	1.0	11/19/21 07:53	
Toluene	ug/L	ND	1.0	11/19/21 07:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
Trichloroethene	ug/L	ND	1.0	11/19/21 07:53	
Trichlorofluoromethane	ug/L	ND	1.0	11/19/21 07:53	
Vinyl acetate	ug/L	ND	2.0	11/19/21 07:53	
Vinyl chloride	ug/L	ND	1.0	11/19/21 07:53	
Xylene (Total)	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/19/21 07:53	
4-Bromofluorobenzene (S)	%	100	70-130	11/19/21 07:53	
Toluene-d8 (S)	%	103	70-130	11/19/21 07:53	

LABORATORY CONTROL SAMPLE: 3461391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.1	98	70-130	
1,1,1-Trichloroethane	ug/L	50	46.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	70-130	
1,1,2-Trichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethene	ug/L	50	47.4	95	70-132	
1,1-Dichloropropene	ug/L	50	46.1	92	70-131	
1,2,3-Trichlorobenzene	ug/L	50	52.8	106	70-134	
1,2,3-Trichloropropane	ug/L	50	48.2	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,2-Dichloroethane	ug/L	50	44.9	90	70-130	
1,2-Dichloropropane	ug/L	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,3-Dichloropropane	ug/L	50	48.1	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

QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

LABORATORY CONTROL SAMPLE: 3461391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
2,2-Dichloropropane	ug/L	50	51.4	103	70-130	
2-Butanone (MEK)	ug/L	100	93.3	93	70-133	
2-Chlorotoluene	ug/L	50	47.9	96	70-130	
2-Hexanone	ug/L	100	98.9	99	70-130	
4-Chlorotoluene	ug/L	50	47.0	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.5	94	70-130	
Acetone	ug/L	100	93.4	93	70-144	
Benzene	ug/L	50	47.1	94	70-130	
Bromobenzene	ug/L	50	48.6	97	70-130	
Bromochloromethane	ug/L	50	48.8	98	70-130	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	49.9	100	70-131	
Bromomethane	ug/L	50	46.8	94	30-177	v3
Carbon tetrachloride	ug/L	50	47.8	96	70-130	
Chlorobenzene	ug/L	50	48.5	97	70-130	
Chloroethane	ug/L	50	30.3	61	46-131	IK,IL
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	40.8	82	49-130	
cis-1,2-Dichloroethene	ug/L	50	46.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Dibromochloromethane	ug/L	50	50.2	100	70-130	
Dibromomethane	ug/L	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/L	50	43.1	86	52-134	
Diisopropyl ether	ug/L	50	45.2	90	70-131	
Ethylbenzene	ug/L	50	48.6	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.2	104	70-131	
m&p-Xylene	ug/L	100	98.8	99	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	70-130	
Methylene Chloride	ug/L	50	43.6	87	68-130	
Naphthalene	ug/L	50	52.6	105	70-133	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	49.5	99	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	46.2	92	70-130	
Toluene	ug/L	50	46.5	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Trichloroethene	ug/L	50	47.2	94	70-130	
Trichlorofluoromethane	ug/L	50	40.3	81	61-130	
Vinyl acetate	ug/L	100	108	108	70-140	
Vinyl chloride	ug/L	50	45.4	91	59-142	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461392 3461393

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.9	20.9	109	104	70-135	5	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.3	22.0	111	110	70-148	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.7	21.3	113	107	70-131	6	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.3	21.5	111	107	70-136	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	22.7	22.4	114	112	70-147	2	30	
1,1-Dichloroethene	ug/L	8.1	20	20	29.0	31.4	104	116	70-158	8	30	
1,1-Dichloropropene	ug/L	ND	20	20	22.4	21.9	112	109	70-149	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.1	22.7	116	113	68-140	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.5	21.7	112	109	67-137	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.9	22.2	115	111	70-139	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.1	21.4	110	107	69-136	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.7	21.5	113	107	70-137	5	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.5	21.5	113	108	70-133	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	21.2	20.2	106	101	67-138	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	21.9	112	110	70-138	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.1	21.4	115	107	70-133	8	30	
1,3-Dichloropropane	ug/L	ND	20	20	22.6	21.7	113	108	70-136	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	23.2	22.1	116	110	70-133	5	30	
2,2-Dichloropropane	ug/L	ND	20	20	27.8	27.6	139	138	52-155	1	30	
2-Butanone (MEK)	ug/L	ND	40	40	44.2	42.6	111	107	61-147	4	30	
2-Chlorotoluene	ug/L	ND	20	20	24.2	23.1	121	116	70-141	5	30	
2-Hexanone	ug/L	ND	40	40	50.8	48.4	127	121	67-139	5	30	
4-Chlorotoluene	ug/L	ND	20	20	23.1	22.2	116	111	70-135	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	47.2	45.9	118	115	67-136	3	30	
Acetone	ug/L	ND	40	40	43.1	42.1	108	105	55-159	2	30	
Benzene	ug/L	ND	20	20	23.0	22.0	115	110	67-150	4	30	
Bromobenzene	ug/L	ND	20	20	22.3	21.8	112	109	70-134	2	30	
Bromochloromethane	ug/L	ND	20	20	22.2	21.5	111	108	70-146	3	30	
Bromodichloromethane	ug/L	ND	20	20	21.7	21.0	108	105	70-138	3	30	
Bromoform	ug/L	ND	20	20	19.9	19.1	100	96	57-138	4	30	
Bromomethane	ug/L	ND	20	20	22.8	23.4	114	117	10-200	2	30	v3
Carbon tetrachloride	ug/L	ND	20	20	23.1	22.7	116	113	70-147	2	30	
Chlorobenzene	ug/L	ND	20	20	22.8	21.9	114	110	70-137	4	30	
Chloroethane	ug/L	ND	20	20	20.9	20.7	104	103	51-166	1	30	IK,IL
Chloroform	ug/L	ND	20	20	22.5	22.0	112	110	70-144	2	30	
Chloromethane	ug/L	ND	20	20	18.6	18.3	93	91	24-161	2	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.1	21.9	110	109	67-148	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.9	21.9	114	109	70-142	4	30	
Dibromochloromethane	ug/L	ND	20	20	21.8	20.8	109	104	68-138	5	30	
Dibromomethane	ug/L	ND	20	20	22.0	21.5	110	107	70-134	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	20.1	101	100	43-155	1	30	
Diisopropyl ether	ug/L	ND	20	20	21.2	20.5	106	102	65-146	3	30	
Ethylbenzene	ug/L	ND	20	20	23.4	22.5	117	113	68-143	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.9	22.5	114	112	62-151	2	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461392 3461393

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	40	40	47.5	45.7	119	114	53-157	4	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.3	20.3	106	102	59-156	5	30	
Methylene Chloride	ug/L	ND	20	20	20.3	19.8	101	99	64-148	2	30	
Naphthalene	ug/L	ND	20	20	23.3	22.3	116	112	57-150	4	30	
o-Xylene	ug/L	ND	20	20	23.2	21.9	116	110	68-143	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	24.0	23.0	120	115	70-141	5	30	
Styrene	ug/L	ND	20	20	23.1	21.9	115	110	70-136	5	30	
Tetrachloroethene	ug/L	ND	20	20	21.1	20.4	106	102	70-139	3	30	
Toluene	ug/L	ND	20	20	22.7	22.0	114	110	47-157	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.1	21.7	115	108	70-149	6	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	22.8	116	114	70-138	2	30	
Trichloroethene	ug/L	ND	20	20	22.7	22.3	113	112	70-149	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	20.2	20.3	101	101	61-154	0	30	
Vinyl acetate	ug/L	ND	40	40	47.5	45.3	119	113	48-156	5	30	
Vinyl chloride	ug/L	ND	20	20	22.5	22.2	112	111	55-172	1	30	
Xylene (Total)	ug/L	ND	60	60	70.6	67.7	118	113	66-145	4	30	
1,2-Dichloroethane-d4 (S)	%						96	93	70-130			
4-Bromofluorobenzene (S)	%						102	101	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

QC Batch: 661553
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92572910014

METHOD BLANK: 3466250 Matrix: Water
Associated Lab Samples: 92572910014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/22/21 14:24	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/22/21 14:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/22/21 14:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/22/21 14:24	
1,1-Dichloroethane	ug/L	ND	1.0	11/22/21 14:24	
1,1-Dichloroethene	ug/L	ND	1.0	11/22/21 14:24	
1,1-Dichloropropene	ug/L	ND	1.0	11/22/21 14:24	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/22/21 14:24	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/22/21 14:24	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/22/21 14:24	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/22/21 14:24	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/22/21 14:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/22/21 14:24	
1,2-Dichloroethane	ug/L	ND	1.0	11/22/21 14:24	
1,2-Dichloropropane	ug/L	ND	1.0	11/22/21 14:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/22/21 14:24	
1,3-Dichloropropane	ug/L	ND	1.0	11/22/21 14:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/22/21 14:24	
2,2-Dichloropropane	ug/L	ND	1.0	11/22/21 14:24	
2-Butanone (MEK)	ug/L	ND	5.0	11/22/21 14:24	
2-Chlorotoluene	ug/L	ND	1.0	11/22/21 14:24	
2-Hexanone	ug/L	ND	5.0	11/22/21 14:24	
4-Chlorotoluene	ug/L	ND	1.0	11/22/21 14:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/22/21 14:24	
Acetone	ug/L	ND	25.0	11/22/21 14:24	
Benzene	ug/L	ND	1.0	11/22/21 14:24	
Bromobenzene	ug/L	ND	1.0	11/22/21 14:24	
Bromochloromethane	ug/L	ND	1.0	11/22/21 14:24	
Bromodichloromethane	ug/L	ND	1.0	11/22/21 14:24	
Bromoform	ug/L	ND	1.0	11/22/21 14:24	
Bromomethane	ug/L	ND	2.0	11/22/21 14:24	
Carbon tetrachloride	ug/L	ND	1.0	11/22/21 14:24	
Chlorobenzene	ug/L	ND	1.0	11/22/21 14:24	
Chloroethane	ug/L	ND	1.0	11/22/21 14:24	
Chloroform	ug/L	ND	1.0	11/22/21 14:24	
Chloromethane	ug/L	ND	1.0	11/22/21 14:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/22/21 14:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/22/21 14:24	v1
Dibromochloromethane	ug/L	ND	1.0	11/22/21 14:24	
Dibromomethane	ug/L	ND	1.0	11/22/21 14:24	

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

METHOD BLANK: 3466250 Matrix: Water
Associated Lab Samples: 92572910014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/22/21 14:24	
Diisopropyl ether	ug/L	ND	1.0	11/22/21 14:24	
Ethylbenzene	ug/L	ND	1.0	11/22/21 14:24	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/22/21 14:24	
m&p-Xylene	ug/L	ND	2.0	11/22/21 14:24	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/22/21 14:24	
Methylene Chloride	ug/L	ND	5.0	11/22/21 14:24	
Naphthalene	ug/L	ND	1.0	11/22/21 14:24	
o-Xylene	ug/L	ND	1.0	11/22/21 14:24	
p-Isopropyltoluene	ug/L	ND	1.0	11/22/21 14:24	
Styrene	ug/L	ND	1.0	11/22/21 14:24	
Tetrachloroethene	ug/L	ND	1.0	11/22/21 14:24	
Toluene	ug/L	ND	1.0	11/22/21 14:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/22/21 14:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/22/21 14:24	v1
Trichloroethene	ug/L	ND	1.0	11/22/21 14:24	
Trichlorofluoromethane	ug/L	ND	1.0	11/22/21 14:24	
Vinyl acetate	ug/L	ND	2.0	11/22/21 14:24	
Vinyl chloride	ug/L	ND	1.0	11/22/21 14:24	
Xylene (Total)	ug/L	ND	1.0	11/22/21 14:24	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/22/21 14:24	
4-Bromofluorobenzene (S)	%	98	70-130	11/22/21 14:24	
Toluene-d8 (S)	%	104	70-130	11/22/21 14:24	

LABORATORY CONTROL SAMPLE: 3466251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	70-130	
1,1,1-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.3	99	70-130	
1,1,2-Trichloroethane	ug/L	50	59.8	120	70-130	
1,1-Dichloroethane	ug/L	50	45.4	91	70-130	
1,1-Dichloroethene	ug/L	50	43.8	88	70-132	
1,1-Dichloropropene	ug/L	50	51.2	102	70-131	
1,2,3-Trichlorobenzene	ug/L	50	52.1	104	70-134	
1,2,3-Trichloropropane	ug/L	50	47.9	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.1	108	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	70-130	
1,2-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,2-Dichloroethane	ug/L	50	47.1	94	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	70-130	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,3-Dichloropropane	ug/L	50	51.1	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

LABORATORY CONTROL SAMPLE: 3466251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
2,2-Dichloropropane	ug/L	50	52.5	105	70-130	
2-Butanone (MEK)	ug/L	100	92.5	93	70-133	
2-Chlorotoluene	ug/L	50	50.0	100	70-130	
2-Hexanone	ug/L	100	89.3	89	70-130	
4-Chlorotoluene	ug/L	50	48.0	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-130	
Acetone	ug/L	100	88.8	89	70-144	
Benzene	ug/L	50	47.0	94	70-130	
Bromobenzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	51.3	103	70-130	
Bromoform	ug/L	50	52.0	104	70-131	
Bromomethane	ug/L	50	48.8	98	30-177	
Carbon tetrachloride	ug/L	50	51.1	102	70-130	
Chlorobenzene	ug/L	50	49.2	98	70-130	
Chloroethane	ug/L	50	46.3	93	46-131	
Chloroform	ug/L	50	47.9	96	70-130	
Chloromethane	ug/L	50	38.1	76	49-130	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	70-130	
cis-1,3-Dichloropropene	ug/L	50	61.7	123	70-130	v1
Dibromochloromethane	ug/L	50	53.9	108	70-130	
Dibromomethane	ug/L	50	50.7	101	70-130	
Dichlorodifluoromethane	ug/L	50	45.5	91	52-134	
Diisopropyl ether	ug/L	50	41.1	82	70-131	
Ethylbenzene	ug/L	50	47.2	94	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.9	108	70-131	
m&p-Xylene	ug/L	100	95.2	95	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Methylene Chloride	ug/L	50	40.6	81	68-130	
Naphthalene	ug/L	50	52.5	105	70-133	
o-Xylene	ug/L	50	47.8	96	70-130	
p-Isopropyltoluene	ug/L	50	50.7	101	70-130	
Styrene	ug/L	50	49.4	99	70-130	
Tetrachloroethene	ug/L	50	47.9	96	70-130	
Toluene	ug/L	50	54.9	110	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.1	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	60.4	121	70-130	v1
Trichloroethene	ug/L	50	49.5	99	70-130	
Trichlorofluoromethane	ug/L	50	45.6	91	61-130	
Vinyl acetate	ug/L	100	100	100	70-140	
Vinyl chloride	ug/L	50	46.1	92	59-142	
Xylene (Total)	ug/L	150	143	95	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			115	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466252 3466253

Parameter	Units	92572910014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	204	209	102	104	70-135	2	30	
1,1,1-Trichloroethane	ug/L	16.1	200	200	183	228	84	106	70-148	22	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	203	252	102	126	70-131	22	30	
1,1,2-Trichloroethane	ug/L	ND	200	200	201	201	101	101	70-136	0	30	
1,1-Dichloroethane	ug/L	142	200	200	267	416	62	137	70-147	44	30	M1,R1
1,1-Dichloroethene	ug/L	1300	200	200	1280	1650	-7	174	70-158	25	30	M1
1,1-Dichloropropene	ug/L	ND	200	200	173	212	87	106	70-149	20	30	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	183	206	91	103	68-140	12	30	
1,2,3-Trichloropropane	ug/L	ND	200	200	201	253	100	126	67-137	23	30	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	185	218	93	109	70-139	16	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	190	208	95	104	69-136	9	30	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	203	211	102	105	70-137	4	30	
1,2-Dichlorobenzene	ug/L	ND	200	200	193	198	97	99	70-133	2	30	
1,2-Dichloroethane	ug/L	ND	200	200	195	208	93	100	67-138	7	30	
1,2-Dichloropropane	ug/L	ND	200	200	211	208	106	104	70-138	2	30	
1,3-Dichlorobenzene	ug/L	ND	200	200	200	200	100	100	70-133	0	30	
1,3-Dichloropropane	ug/L	ND	200	200	206	207	103	104	70-136	1	30	
1,4-Dichlorobenzene	ug/L	ND	200	200	206	209	103	104	70-133	1	30	
2,2-Dichloropropane	ug/L	ND	200	200	174	252	87	126	52-155	36	30	R1
2-Butanone (MEK)	ug/L	ND	400	400	323	366	81	91	61-147	13	30	
2-Chlorotoluene	ug/L	ND	200	200	197	207	98	104	70-141	5	30	
2-Hexanone	ug/L	ND	400	400	435	425	109	106	67-139	2	30	
4-Chlorotoluene	ug/L	ND	200	200	195	208	97	104	70-135	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	400	400	394	389	99	97	67-136	1	30	
Acetone	ug/L	ND	400	400	340	512	85	128	55-159	40	30	R1
Benzene	ug/L	ND	200	200	205	216	103	108	67-150	5	30	
Bromobenzene	ug/L	ND	200	200	199	201	99	100	70-134	1	30	
Bromochloromethane	ug/L	ND	200	200	164	202	82	101	70-146	20	30	
Bromodichloromethane	ug/L	ND	200	200	199	212	99	106	70-138	7	30	
Bromoform	ug/L	ND	200	200	193	227	96	114	57-138	16	30	
Bromomethane	ug/L	ND	200	200	184	281	92	141	10-200	42	30	R1
Carbon tetrachloride	ug/L	ND	200	200	186	242	93	121	70-147	26	30	
Chlorobenzene	ug/L	ND	200	200	205	210	103	105	70-137	2	30	
Chloroethane	ug/L	ND	200	200	233	305	113	149	51-166	27	30	
Chloroform	ug/L	ND	200	200	155	205	78	103	70-144	28	30	
Chloromethane	ug/L	ND	200	200	170	212	85	106	24-161	22	30	
cis-1,2-Dichloroethene	ug/L	ND	200	200	165	258	79	125	67-148	44	30	R1
cis-1,3-Dichloropropene	ug/L	ND	200	200	198	207	99	104	70-142	4	30	
Dibromochloromethane	ug/L	ND	200	200	203	211	102	106	68-138	4	30	
Dibromomethane	ug/L	ND	200	200	197	215	98	108	70-134	9	30	
Dichlorodifluoromethane	ug/L	ND	200	200	184	243	92	121	43-155	27	30	
Diisopropyl ether	ug/L	ND	200	200	153	229	77	114	65-146	40	30	R1
Ethylbenzene	ug/L	ND	200	200	214	216	107	108	68-143	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	200	231	100	115	62-151	14	30	IH,v1

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466252 3466253

Parameter	Units	92572910014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	400	400	419	439	105	110	53-157	5	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	170	258	85	129	59-156	41	30	R1
Methylene Chloride	ug/L	ND	200	200	175	270	80	127	64-148	43	30	R1
Naphthalene	ug/L	ND	200	200	223	205	111	102	57-150	9	30	
o-Xylene	ug/L	ND	200	200	202	239	101	120	68-143	17	30	
p-Isopropyltoluene	ug/L	ND	200	200	205	218	103	109	70-141	6	30	
Styrene	ug/L	ND	200	200	207	242	103	121	70-136	16	30	
Tetrachloroethene	ug/L	ND	200	200	205	218	102	109	70-139	6	30	
Toluene	ug/L	ND	200	200	193	202	97	101	47-157	4	30	
trans-1,2-Dichloroethene	ug/L	ND	200	200	176	274	88	137	70-149	44	30	R1
trans-1,3-Dichloropropene	ug/L	ND	200	200	195	207	98	103	70-138	6	30	
Trichloroethene	ug/L	ND	200	200	216	228	103	110	70-149	6	30	
Trichlorofluoromethane	ug/L	ND	200	200	193	264	96	132	61-154	31	30	R1
Vinyl acetate	ug/L	ND	400	400	365	566	91	141	48-156	43	30	R1
Vinyl chloride	ug/L	ND	200	200	200	252	100	126	55-172	23	30	
Xylene (Total)	ug/L	ND	600	600	620	679	103	113	66-145	9	30	
1,2-Dichloroethane-d4 (S)	%						95	98	70-130			
4-Bromofluorobenzene (S)	%						103	134	70-130			S0
Toluene-d8 (S)	%						96	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

QC Batch: 662512
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92572910015

METHOD BLANK: 3471019 Matrix: Water
Associated Lab Samples: 92572910015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/29/21 14:23	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/29/21 14:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/29/21 14:23	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/29/21 14:23	
1,1-Dichloroethane	ug/L	ND	1.0	11/29/21 14:23	
1,1-Dichloroethene	ug/L	ND	1.0	11/29/21 14:23	
1,1-Dichloropropene	ug/L	ND	1.0	11/29/21 14:23	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/29/21 14:23	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/29/21 14:23	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/29/21 14:23	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/29/21 14:23	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/29/21 14:23	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/29/21 14:23	
1,2-Dichloroethane	ug/L	ND	1.0	11/29/21 14:23	
1,2-Dichloropropane	ug/L	ND	1.0	11/29/21 14:23	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/29/21 14:23	
1,3-Dichloropropane	ug/L	ND	1.0	11/29/21 14:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/29/21 14:23	
2,2-Dichloropropane	ug/L	ND	1.0	11/29/21 14:23	
2-Butanone (MEK)	ug/L	ND	5.0	11/29/21 14:23	
2-Chlorotoluene	ug/L	ND	1.0	11/29/21 14:23	
2-Hexanone	ug/L	ND	5.0	11/29/21 14:23	
4-Chlorotoluene	ug/L	ND	1.0	11/29/21 14:23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/29/21 14:23	
Acetone	ug/L	ND	25.0	11/29/21 14:23	
Benzene	ug/L	ND	1.0	11/29/21 14:23	
Bromobenzene	ug/L	ND	1.0	11/29/21 14:23	
Bromochloromethane	ug/L	ND	1.0	11/29/21 14:23	
Bromodichloromethane	ug/L	ND	1.0	11/29/21 14:23	
Bromoform	ug/L	ND	1.0	11/29/21 14:23	
Bromomethane	ug/L	ND	2.0	11/29/21 14:23	v1
Carbon tetrachloride	ug/L	ND	1.0	11/29/21 14:23	
Chlorobenzene	ug/L	ND	1.0	11/29/21 14:23	
Chloroethane	ug/L	ND	1.0	11/29/21 14:23	v1
Chloroform	ug/L	ND	1.0	11/29/21 14:23	
Chloromethane	ug/L	ND	1.0	11/29/21 14:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/29/21 14:23	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/29/21 14:23	
Dibromochloromethane	ug/L	ND	1.0	11/29/21 14:23	
Dibromomethane	ug/L	ND	1.0	11/29/21 14:23	

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

METHOD BLANK: 3471019 Matrix: Water
Associated Lab Samples: 92572910015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/29/21 14:23	
Diisopropyl ether	ug/L	ND	1.0	11/29/21 14:23	
Ethylbenzene	ug/L	ND	1.0	11/29/21 14:23	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/29/21 14:23	IH,v1
m&p-Xylene	ug/L	ND	2.0	11/29/21 14:23	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/29/21 14:23	
Methylene Chloride	ug/L	ND	5.0	11/29/21 14:23	
Naphthalene	ug/L	ND	1.0	11/29/21 14:23	
o-Xylene	ug/L	ND	1.0	11/29/21 14:23	
p-Isopropyltoluene	ug/L	ND	1.0	11/29/21 14:23	
Styrene	ug/L	ND	1.0	11/29/21 14:23	
Tetrachloroethene	ug/L	ND	1.0	11/29/21 14:23	
Toluene	ug/L	ND	1.0	11/29/21 14:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/29/21 14:23	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/29/21 14:23	
Trichloroethene	ug/L	ND	1.0	11/29/21 14:23	
Trichlorofluoromethane	ug/L	ND	1.0	11/29/21 14:23	v1
Vinyl acetate	ug/L	ND	2.0	11/29/21 14:23	v1
Vinyl chloride	ug/L	ND	1.0	11/29/21 14:23	
Xylene (Total)	ug/L	ND	1.0	11/29/21 14:23	
1,2-Dichloroethane-d4 (S)	%	92	70-130	11/29/21 14:23	
4-Bromofluorobenzene (S)	%	102	70-130	11/29/21 14:23	
Toluene-d8 (S)	%	101	70-130	11/29/21 14:23	

LABORATORY CONTROL SAMPLE: 3471020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.5	113	70-130	
1,1,1-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.3	99	70-130	
1,1,2-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethene	ug/L	50	51.8	104	70-132	
1,1-Dichloropropene	ug/L	50	54.0	108	70-131	
1,2,3-Trichlorobenzene	ug/L	50	55.3	111	70-134	
1,2,3-Trichloropropane	ug/L	50	50.9	102	70-130	
1,2,4-Trichlorobenzene	ug/L	50	59.1	118	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.7	113	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	70-130	
1,2-Dichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dichloroethane	ug/L	50	48.2	96	70-130	
1,2-Dichloropropane	ug/L	50	48.3	97	70-130	
1,3-Dichlorobenzene	ug/L	50	54.8	110	70-130	
1,3-Dichloropropane	ug/L	50	53.9	108	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

LABORATORY CONTROL SAMPLE: 3471020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	55.2	110	70-130	
2,2-Dichloropropane	ug/L	50	57.6	115	70-130	
2-Butanone (MEK)	ug/L	100	108	108	70-133	
2-Chlorotoluene	ug/L	50	55.6	111	70-130	
2-Hexanone	ug/L	100	113	113	70-130	
4-Chlorotoluene	ug/L	50	54.5	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	70-130	
Acetone	ug/L	100	97.1	97	70-144	
Benzene	ug/L	50	49.8	100	70-130	
Bromobenzene	ug/L	50	54.7	109	70-130	
Bromochloromethane	ug/L	50	50.3	101	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	56.7	113	70-131	
Bromomethane	ug/L	50	88.1	176	30-177	v1
Carbon tetrachloride	ug/L	50	54.4	109	70-130	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	71.1	142	46-131	L1,v1
Chloroform	ug/L	50	49.9	100	70-130	
Chloromethane	ug/L	50	42.9	86	49-130	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	56.0	112	70-130	
Dibromochloromethane	ug/L	50	56.9	114	70-130	
Dibromomethane	ug/L	50	43.8	88	70-130	
Dichlorodifluoromethane	ug/L	50	49.1	98	52-134	
Diisopropyl ether	ug/L	50	55.8	112	70-131	
Ethylbenzene	ug/L	50	52.6	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	60.8	122	70-131	IH,v1
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	58.0	116	70-130	
Methylene Chloride	ug/L	50	44.7	89	68-130	
Naphthalene	ug/L	50	56.2	112	70-133	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	57.1	114	70-130	
Styrene	ug/L	50	52.3	105	70-130	
Tetrachloroethene	ug/L	50	52.6	105	70-130	
Toluene	ug/L	50	50.2	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	63.1	126	61-130	v1
Vinyl acetate	ug/L	100	135	135	70-140	v1
Vinyl chloride	ug/L	50	47.0	94	59-142	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			98	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471021 3471022

Parameter	Units	92572910015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	244	217	122	109	70-135	12	30	
1,1,1-Trichloroethane	ug/L	15.1	200	200	243	237	114	111	70-148	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	245	208	122	104	70-131	16	30	
1,1,2-Trichloroethane	ug/L	ND	200	200	220	224	110	112	70-136	2	30	
1,1-Dichloroethane	ug/L	197	200	200	370	372	87	88	70-147	1	30	
1,1-Dichloroethene	ug/L	1800	200	200	1460	1570	-173	-116	70-158	8	30	M1
1,1-Dichloropropene	ug/L	ND	200	200	237	239	118	119	70-149	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	245	180	122	90	68-140	31	30	R1
1,2,3-Trichloropropane	ug/L	ND	200	200	247	205	123	103	67-137	19	30	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	251	220	126	110	70-139	13	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	229	197	114	98	69-136	15	30	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	257	212	129	106	70-137	19	30	
1,2-Dichlorobenzene	ug/L	ND	200	200	214	203	107	102	70-133	5	30	
1,2-Dichloroethane	ug/L	ND	200	200	208	211	100	101	67-138	1	30	
1,2-Dichloropropane	ug/L	ND	200	200	224	194	112	97	70-138	14	30	
1,3-Dichlorobenzene	ug/L	ND	200	200	226	219	113	110	70-133	3	30	
1,3-Dichloropropane	ug/L	ND	200	200	255	213	128	106	70-136	18	30	
1,4-Dichlorobenzene	ug/L	ND	200	200	229	224	114	112	70-133	2	30	
2,2-Dichloropropane	ug/L	ND	200	200	254	252	127	126	52-155	1	30	
2-Butanone (MEK)	ug/L	ND	400	400	416	407	104	102	61-147	2	30	
2-Chlorotoluene	ug/L	ND	200	200	221	210	110	105	70-141	5	30	
2-Hexanone	ug/L	ND	400	400	546	452	136	113	67-139	19	30	
4-Chlorotoluene	ug/L	ND	200	200	220	214	110	107	70-135	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	400	400	450	453	113	113	67-136	0	30	
Acetone	ug/L	ND	400	400	436	404	109	101	55-159	8	30	
Benzene	ug/L	ND	200	200	228	240	114	120	67-150	5	30	
Bromobenzene	ug/L	ND	200	200	203	205	101	102	70-134	1	30	
Bromochloromethane	ug/L	ND	200	200	213	207	106	104	70-146	3	30	
Bromodichloromethane	ug/L	ND	200	200	218	221	109	111	70-138	2	30	
Bromoform	ug/L	ND	200	200	218	217	109	108	57-138	0	30	
Bromomethane	ug/L	ND	200	200	374	393	184	194	10-200	5	30	v1
Carbon tetrachloride	ug/L	ND	200	200	249	247	125	123	70-147	1	30	
Chlorobenzene	ug/L	ND	200	200	238	213	119	107	70-137	11	30	
Chloroethane	ug/L	ND	200	200	391	423	196	211	51-166	8	30	M0,v1
Chloroform	ug/L	ND	200	200	216	218	108	109	70-144	1	30	
Chloromethane	ug/L	ND	200	200	236	220	117	109	24-161	7	30	
cis-1,2-Dichloroethene	ug/L	ND	200	200	228	226	110	108	67-148	1	30	
cis-1,3-Dichloropropene	ug/L	ND	200	200	225	237	113	119	70-142	5	30	
Dibromochloromethane	ug/L	ND	200	200	259	217	129	108	68-138	18	30	
Dibromomethane	ug/L	ND	200	200	216	229	108	115	70-134	6	30	
Dichlorodifluoromethane	ug/L	ND	200	200	219	223	110	112	43-155	2	30	
Diisopropyl ether	ug/L	ND	200	200	217	181	108	91	65-146	18	30	
Ethylbenzene	ug/L	ND	200	200	249	224	125	112	68-143	11	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	303	270	148	132	62-151	11	30	IH,v1

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471021 3471022

Parameter	Units	92572910015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	400	400	517	440	129	110	53-157	16	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	228	203	114	102	59-156	12	30	
Methylene Chloride	ug/L	ND	200	200	227	225	106	105	64-148	1	30	
Naphthalene	ug/L	ND	200	200	227	199	111	96	57-150	13	30	
o-Xylene	ug/L	ND	200	200	201	214	101	107	68-143	6	30	
p-Isopropyltoluene	ug/L	ND	200	200	256	232	128	116	70-141	10	30	
Styrene	ug/L	ND	200	200	208	222	104	111	70-136	7	30	
Tetrachloroethene	ug/L	ND	200	200	259	222	130	111	70-139	15	30	
Toluene	ug/L	ND	200	200	215	224	107	112	47-157	4	30	
trans-1,2-Dichloroethene	ug/L	ND	200	200	242	206	121	103	70-149	16	30	
trans-1,3-Dichloropropene	ug/L	ND	200	200	228	233	114	117	70-138	2	30	
Trichloroethene	ug/L	ND	200	200	246	256	119	124	70-149	4	30	
Trichlorofluoromethane	ug/L	ND	200	200	294	311	147	156	61-154	6	30	M1,v1
Vinyl acetate	ug/L	ND	400	400	525	509	131	127	48-156	3	30	v1
Vinyl chloride	ug/L	ND	200	200	286	317	143	159	55-172	10	30	
Xylene (Total)	ug/L	ND	600	600	718	654	120	109	66-145	9	30	
1,2-Dichloroethane-d4 (S)	%						92	96	70-130			
4-Bromofluorobenzene (S)	%						108	105	70-130			
Toluene-d8 (S)	%						97	107	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

QC Batch: 660613
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92572910013

METHOD BLANK: 3461559 Matrix: Water
Associated Lab Samples: 92572910013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/17/21 16:11	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/17/21 16:11	
Toluene-d8 (S)	%	90	66-133	11/17/21 16:11	

LABORATORY CONTROL SAMPLE: 3461560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
Toluene-d8 (S)	%			91	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461561 3461562

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	5.1	20	20	25.1	23.3	100	91	64-141	7	30	
1,2-Dichloroethane-d4 (S)	%						92	96	70-130		30	
Toluene-d8 (S)	%						85	87	66-133		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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

QC Batch: 660958
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92572910014, 92572910015

METHOD BLANK: 3463490 Matrix: Water
Associated Lab Samples: 92572910014, 92572910015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/18/21 18:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130	11/18/21 18:07	
Toluene-d8 (S)	%	89	66-133	11/18/21 18:07	

LABORATORY CONTROL SAMPLE: 3463491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.6	98	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
Toluene-d8 (S)	%			88	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463492 3463493

Parameter	Units	92572910015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	396	200	200	669	656	137	130	64-141	2	30	
1,2-Dichloroethane-d4 (S)	%						100	102	70-130		30	
Toluene-d8 (S)	%						89	89	66-133		30	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
IK	The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
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.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574598

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92572910013	**MW-45**	EPA 8260D	660597		
92572910014	**MW-24D**	EPA 8260D	661553		
92572910015	**DUP-111521**	EPA 8260D	662512		
92572910013	**MW-45**	EPA 8260D Mod.	660613		
92572910014	**MW-24D**	EPA 8260D Mod.	660958		
92572910015	**DUP-111521**	EPA 8260D Mod.	660958		

CHAIN-OF-CUSTODY RECORD

WSP USA Office Address: 13530 Dulles Technology Dr. Herndon, VA 20171

Project Name: ~~[redacted]~~ Kapflex Offsite

Project Location: Hanover, MD

Project Number & Task: 31401545.011

WSP USA Contact Name: Eric Johnson

WSP USA Contact E-mail: Eric.Johnson@wsp.com

WSP USA Contact Phone: 703 709 6500

Sampler(s) Name(s): Molly Elliott

Sampler(s) Signature(s):

No. 10660

Laboratory Name & Location: Pace, NC

Laboratory Project Manager: Bonnie Vang

Requested Turn-Around-Time: [X] Standard [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

Requested Analyses & Preservatives: VOC 8260D; 1,4-dioxane 8260D SIM

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	VOC 8260D	1,4-dioxane 8260D SIM	Sample Comments
MW-45	~~AQ~~	11/15/21		13	10	6	X	X	0013
MW-24D	~~AQ~~	"		13	25	6	X	X	0014
DUP-111521	~~AQ~~	"		12	00	6	X	X	0015

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Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
	11/15/21	1426	JKL Pace MVL	11/17/21	1015		
Relinquished By (Signature)	**Date**	**Time**	**Received By (Signature)**	**Date**	**Time**	**Number of Packages**	**Custody Seal Number(s)**

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

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

November 29, 2021

Eric Johnson
WSP USA
13530 Dulles Technology Drive
Suite 300
Herndon, VA 20171

RE: Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory between November 17, 2021 and November 29, 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,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP

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

CERTIFICATIONS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

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

SAMPLE SUMMARY

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92574601001	**Placeholder**	Water		11/29/21 16:13
92572910012	**MW-46D**	Water	11/14/21 14:30	11/17/21 10:15

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92572910012	**MW-46D**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	LMB	3	PASI-C

PASI-C = Pace Analytical Services - Charlotte

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

Sample: MW-46D **Lab ID: 92572910012** Collected: 11/14/21 14:30 Received: 11/17/21 10:15 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							
Acetone	ND	ug/L	25.0	1		11/19/21 12:45	67-64-1	
Benzene	ND	ug/L	1.0	1		11/19/21 12:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/19/21 12:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/19/21 12:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/19/21 12:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/19/21 12:45	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/19/21 12:45	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		11/19/21 12:45	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/19/21 12:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/19/21 12:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/19/21 12:45	75-00-3	IK,IL
Chloroform	ND	ug/L	1.0	1		11/19/21 12:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/19/21 12:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 12:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/19/21 12:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		11/19/21 12:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/19/21 12:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/19/21 12:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/19/21 12:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 12:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 12:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/19/21 12:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/19/21 12:45	75-71-8	
1,1-Dichloroethane	**19.9**	ug/L	1.0	1		11/19/21 12:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/19/21 12:45	107-06-2	
1,1-Dichloroethene	**86.9**	ug/L	1.0	1		11/19/21 12:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 12:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/19/21 12:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 12:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/19/21 12:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/19/21 12:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/19/21 12:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 12:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/19/21 12:45	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/19/21 12:45	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/19/21 12:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/19/21 12:45	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/19/21 12:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/19/21 12:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/21 12:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/19/21 12:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/19/21 12:45	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/19/21 12:45	91-20-3	
Styrene	ND	ug/L	1.0	1		11/19/21 12:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 12:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 12:45	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

Sample: MW-46D **Lab ID: 92572910012** Collected: 11/14/21 14:30 Received: 11/17/21 10:15 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							
Tetrachloroethene	ND	ug/L	1.0	1		11/19/21 12:45	127-18-4	
Toluene	ND	ug/L	1.0	1		11/19/21 12:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 12:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/19/21 12:45	120-82-1	
1,1,1-Trichloroethane	**4.8**	ug/L	1.0	1		11/19/21 12:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/19/21 12:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/19/21 12:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/19/21 12:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/19/21 12:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/19/21 12:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/19/21 12:45	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/19/21 12:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/19/21 12:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/19/21 12:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/19/21 12:45	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		11/19/21 12:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		11/19/21 12:45	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**79.8**	ug/L	2.0	1		11/17/21 22:00	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/17/21 22:00	17060-07-0	
Toluene-d8 (S)	100	%	66-133	1		11/17/21 22:00	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

QC Batch: 660597
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92572910012

METHOD BLANK: 3461390 Matrix: Water
Associated Lab Samples: 92572910012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
1,1-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	11/19/21 07:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloroethane	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
1,3-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
2,2-Dichloropropane	ug/L	ND	1.0	11/19/21 07:53	
2-Butanone (MEK)	ug/L	ND	5.0	11/19/21 07:53	
2-Chlorotoluene	ug/L	ND	1.0	11/19/21 07:53	
2-Hexanone	ug/L	ND	5.0	11/19/21 07:53	
4-Chlorotoluene	ug/L	ND	1.0	11/19/21 07:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/19/21 07:53	
Acetone	ug/L	ND	25.0	11/19/21 07:53	
Benzene	ug/L	ND	1.0	11/19/21 07:53	
Bromobenzene	ug/L	ND	1.0	11/19/21 07:53	
Bromochloromethane	ug/L	ND	1.0	11/19/21 07:53	
Bromodichloromethane	ug/L	ND	1.0	11/19/21 07:53	
Bromoform	ug/L	ND	1.0	11/19/21 07:53	
Bromomethane	ug/L	ND	2.0	11/19/21 07:53	v2
Carbon tetrachloride	ug/L	ND	1.0	11/19/21 07:53	
Chlorobenzene	ug/L	ND	1.0	11/19/21 07:53	
Chloroethane	ug/L	ND	1.0	11/19/21 07:53	IK,IL
Chloroform	ug/L	ND	1.0	11/19/21 07:53	
Chloromethane	ug/L	ND	1.0	11/19/21 07:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
Dibromochloromethane	ug/L	ND	1.0	11/19/21 07:53	
Dibromomethane	ug/L	ND	1.0	11/19/21 07:53	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

METHOD BLANK: 3461390 Matrix: Water
Associated Lab Samples: 92572910012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/19/21 07:53	
Diisopropyl ether	ug/L	ND	1.0	11/19/21 07:53	
Ethylbenzene	ug/L	ND	1.0	11/19/21 07:53	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/19/21 07:53	
m&p-Xylene	ug/L	ND	2.0	11/19/21 07:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/19/21 07:53	
Methylene Chloride	ug/L	ND	5.0	11/19/21 07:53	
Naphthalene	ug/L	ND	1.0	11/19/21 07:53	
o-Xylene	ug/L	ND	1.0	11/19/21 07:53	
p-Isopropyltoluene	ug/L	ND	1.0	11/19/21 07:53	
Styrene	ug/L	ND	1.0	11/19/21 07:53	
Tetrachloroethene	ug/L	ND	1.0	11/19/21 07:53	
Toluene	ug/L	ND	1.0	11/19/21 07:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/19/21 07:53	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/19/21 07:53	
Trichloroethene	ug/L	ND	1.0	11/19/21 07:53	
Trichlorofluoromethane	ug/L	ND	1.0	11/19/21 07:53	
Vinyl acetate	ug/L	ND	2.0	11/19/21 07:53	
Vinyl chloride	ug/L	ND	1.0	11/19/21 07:53	
Xylene (Total)	ug/L	ND	1.0	11/19/21 07:53	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/19/21 07:53	
4-Bromofluorobenzene (S)	%	100	70-130	11/19/21 07:53	
Toluene-d8 (S)	%	103	70-130	11/19/21 07:53	

LABORATORY CONTROL SAMPLE: 3461391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.1	98	70-130	
1,1,1-Trichloroethane	ug/L	50	46.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	70-130	
1,1,2-Trichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethene	ug/L	50	47.4	95	70-132	
1,1-Dichloropropene	ug/L	50	46.1	92	70-131	
1,2,3-Trichlorobenzene	ug/L	50	52.8	106	70-134	
1,2,3-Trichloropropane	ug/L	50	48.2	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,2-Dichloroethane	ug/L	50	44.9	90	70-130	
1,2-Dichloropropane	ug/L	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,3-Dichloropropane	ug/L	50	48.1	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

QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

LABORATORY CONTROL SAMPLE: 3461391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
2,2-Dichloropropane	ug/L	50	51.4	103	70-130	
2-Butanone (MEK)	ug/L	100	93.3	93	70-133	
2-Chlorotoluene	ug/L	50	47.9	96	70-130	
2-Hexanone	ug/L	100	98.9	99	70-130	
4-Chlorotoluene	ug/L	50	47.0	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.5	94	70-130	
Acetone	ug/L	100	93.4	93	70-144	
Benzene	ug/L	50	47.1	94	70-130	
Bromobenzene	ug/L	50	48.6	97	70-130	
Bromochloromethane	ug/L	50	48.8	98	70-130	
Bromodichloromethane	ug/L	50	47.5	95	70-130	
Bromoform	ug/L	50	49.9	100	70-131	
Bromomethane	ug/L	50	46.8	94	30-177	v3
Carbon tetrachloride	ug/L	50	47.8	96	70-130	
Chlorobenzene	ug/L	50	48.5	97	70-130	
Chloroethane	ug/L	50	30.3	61	46-131	IK,IL
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	40.8	82	49-130	
cis-1,2-Dichloroethene	ug/L	50	46.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Dibromochloromethane	ug/L	50	50.2	100	70-130	
Dibromomethane	ug/L	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/L	50	43.1	86	52-134	
Diisopropyl ether	ug/L	50	45.2	90	70-131	
Ethylbenzene	ug/L	50	48.6	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.2	104	70-131	
m&p-Xylene	ug/L	100	98.8	99	70-130	
Methyl-tert-butyl ether	ug/L	50	46.3	93	70-130	
Methylene Chloride	ug/L	50	43.6	87	68-130	
Naphthalene	ug/L	50	52.6	105	70-133	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	49.5	99	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	46.2	92	70-130	
Toluene	ug/L	50	46.5	93	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Trichloroethene	ug/L	50	47.2	94	70-130	
Trichlorofluoromethane	ug/L	50	40.3	81	61-130	
Vinyl acetate	ug/L	100	108	108	70-140	
Vinyl chloride	ug/L	50	45.4	91	59-142	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461392 3461393

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.9	20.9	109	104	70-135	5	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.3	22.0	111	110	70-148	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.7	21.3	113	107	70-131	6	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.3	21.5	111	107	70-136	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	22.7	22.4	114	112	70-147	2	30	
1,1-Dichloroethene	ug/L	8.1	20	20	29.0	31.4	104	116	70-158	8	30	
1,1-Dichloropropene	ug/L	ND	20	20	22.4	21.9	112	109	70-149	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.1	22.7	116	113	68-140	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.5	21.7	112	109	67-137	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.9	22.2	115	111	70-139	3	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.1	21.4	110	107	69-136	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.7	21.5	113	107	70-137	5	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.5	21.5	113	108	70-133	5	30	
1,2-Dichloroethane	ug/L	ND	20	20	21.2	20.2	106	101	67-138	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	22.4	21.9	112	110	70-138	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	23.1	21.4	115	107	70-133	8	30	
1,3-Dichloropropane	ug/L	ND	20	20	22.6	21.7	113	108	70-136	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	23.2	22.1	116	110	70-133	5	30	
2,2-Dichloropropane	ug/L	ND	20	20	27.8	27.6	139	138	52-155	1	30	
2-Butanone (MEK)	ug/L	ND	40	40	44.2	42.6	111	107	61-147	4	30	
2-Chlorotoluene	ug/L	ND	20	20	24.2	23.1	121	116	70-141	5	30	
2-Hexanone	ug/L	ND	40	40	50.8	48.4	127	121	67-139	5	30	
4-Chlorotoluene	ug/L	ND	20	20	23.1	22.2	116	111	70-135	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	47.2	45.9	118	115	67-136	3	30	
Acetone	ug/L	ND	40	40	43.1	42.1	108	105	55-159	2	30	
Benzene	ug/L	ND	20	20	23.0	22.0	115	110	67-150	4	30	
Bromobenzene	ug/L	ND	20	20	22.3	21.8	112	109	70-134	2	30	
Bromochloromethane	ug/L	ND	20	20	22.2	21.5	111	108	70-146	3	30	
Bromodichloromethane	ug/L	ND	20	20	21.7	21.0	108	105	70-138	3	30	
Bromoform	ug/L	ND	20	20	19.9	19.1	100	96	57-138	4	30	
Bromomethane	ug/L	ND	20	20	22.8	23.4	114	117	10-200	2	30	v3
Carbon tetrachloride	ug/L	ND	20	20	23.1	22.7	116	113	70-147	2	30	
Chlorobenzene	ug/L	ND	20	20	22.8	21.9	114	110	70-137	4	30	
Chloroethane	ug/L	ND	20	20	20.9	20.7	104	103	51-166	1	30	IK,IL
Chloroform	ug/L	ND	20	20	22.5	22.0	112	110	70-144	2	30	
Chloromethane	ug/L	ND	20	20	18.6	18.3	93	91	24-161	2	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	22.1	21.9	110	109	67-148	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.9	21.9	114	109	70-142	4	30	
Dibromochloromethane	ug/L	ND	20	20	21.8	20.8	109	104	68-138	5	30	
Dibromomethane	ug/L	ND	20	20	22.0	21.5	110	107	70-134	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	20.1	101	100	43-155	1	30	
Diisopropyl ether	ug/L	ND	20	20	21.2	20.5	106	102	65-146	3	30	
Ethylbenzene	ug/L	ND	20	20	23.4	22.5	117	113	68-143	4	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.9	22.5	114	112	62-151	2	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461392 3461393

Parameter	Units	92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	40	40	47.5	45.7	119	114	53-157	4	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.3	20.3	106	102	59-156	5	30	
Methylene Chloride	ug/L	ND	20	20	20.3	19.8	101	99	64-148	2	30	
Naphthalene	ug/L	ND	20	20	23.3	22.3	116	112	57-150	4	30	
o-Xylene	ug/L	ND	20	20	23.2	21.9	116	110	68-143	6	30	
p-Isopropyltoluene	ug/L	ND	20	20	24.0	23.0	120	115	70-141	5	30	
Styrene	ug/L	ND	20	20	23.1	21.9	115	110	70-136	5	30	
Tetrachloroethene	ug/L	ND	20	20	21.1	20.4	106	102	70-139	3	30	
Toluene	ug/L	ND	20	20	22.7	22.0	114	110	47-157	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.1	21.7	115	108	70-149	6	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	23.3	22.8	116	114	70-138	2	30	
Trichloroethene	ug/L	ND	20	20	22.7	22.3	113	112	70-149	2	30	
Trichlorofluoromethane	ug/L	ND	20	20	20.2	20.3	101	101	61-154	0	30	
Vinyl acetate	ug/L	ND	40	40	47.5	45.3	119	113	48-156	5	30	
Vinyl chloride	ug/L	ND	20	20	22.5	22.2	112	111	55-172	1	30	
Xylene (Total)	ug/L	ND	60	60	70.6	67.7	118	113	66-145	4	30	
1,2-Dichloroethane-d4 (S)	%						96	93	70-130			
4-Bromofluorobenzene (S)	%						102	101	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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

QC Batch: 660615
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92572910012

METHOD BLANK: 3461571 Matrix: Water
Associated Lab Samples: 92572910012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/17/21 16:12	
1,2-Dichloroethane-d4 (S)	%	102	70-130	11/17/21 16:12	
Toluene-d8 (S)	%	102	66-133	11/17/21 16:12	

LABORATORY CONTROL SAMPLE: 3461572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.2	101	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
Toluene-d8 (S)	%			102	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461573 3461574

Parameter	Units	92572915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.8	19.5	104	98	64-141	6	30	
1,2-Dichloroethane-d4 (S)	%						101	98	70-130		30	
Toluene-d8 (S)	%						100	99	66-133		30	

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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: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
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
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92574601

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92572910012	**MW-46D**	EPA 8260D	660597		
92572910012	**MW-46D**	EPA 8260D Mod.	660615		

CHAIN-OF-CUSTODY RECORD

WSP USA Office Address	13530 Dulles Technology Dr. Herndon, VA 20171
Project Name	Kopflex Offsite
WSP USA Contact Name	Eric Johnson
Project Location	Hanover, MD
WSP USA Contact E-mail	Eric.Johnson@wsp.com
Project Number & Task	31401545.011
WSP USA Contact Phone	703 709 6500
Sampler(s) Name(s)	Molly Elliott
Sampler(s) Signature(s)	

Requested Analyses & Preservatives

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	VOC 8260D	1,4-Dioxane 8260D+SIM								Sample Comments
MW-46D	AQ	11/14/21		14	30	6	x	x								9757210 12

No. 10643

Laboratory Name & Location: Pace, NC

Laboratory Project Manager: Bonnie Vang

Requested Turn-Around-Time: [x] Standard [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ____ HR

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
	11/15/21	1420	JKC Pace MVL	11/16/21	1015		
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

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

January 05, 2022

Eric Johnson
WSP USA
13530 Dulles Technology Drive
Suite 300
Herndon, VA 20171

RE: Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 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,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP

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

CERTIFICATIONS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92580519001	**MW-25D-130**	Water	12/29/21 11:15	12/30/21 13:30
92580519002	**MW-25D-192**	Water	12/29/21 11:30	12/30/21 13:30
92580519003	**DUP-12.29.21**	Water	12/29/21 11:00	12/30/21 13:30
92580519004	**TRIP BLANK A**	Water	12/29/21 00:00	12/30/21 13:30

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SAMPLE ANALYTE COUNT

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92580519001	**MW-25D-130**	EPA 8260D	NSCQ	63	PASI-C
		EPA 8260D Mod.	CL	3	PASI-C
92580519002	**MW-25D-192**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	CL	3	PASI-C
92580519003	**DUP-12.29.21**	EPA 8260D	CL	63	PASI-C
		EPA 8260D Mod.	CL	3	PASI-C
92580519004	**TRIP BLANK A**	EPA 8260D	CL	63	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: MW-25D-130 **Lab ID: 92580519001** Collected: 12/29/21 11:15 Received: 12/30/21 13:30 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							
Acetone	ND	ug/L	25.0	1		12/30/21 23:40	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/21 23:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/30/21 23:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/30/21 23:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/30/21 23:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/30/21 23:40	75-25-2	R1
Bromomethane	ND	ug/L	2.0	1		12/30/21 23:40	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		12/30/21 23:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/30/21 23:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/30/21 23:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/30/21 23:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/30/21 23:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/30/21 23:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/30/21 23:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/30/21 23:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/30/21 23:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/30/21 23:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/30/21 23:40	106-93-4	R1
Dibromomethane	ND	ug/L	1.0	1		12/30/21 23:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/30/21 23:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/30/21 23:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/30/21 23:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/30/21 23:40	75-71-8	
1,1-Dichloroethane	**3.0**	ug/L	1.0	1		12/30/21 23:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/30/21 23:40	107-06-2	
1,1-Dichloroethene	**45.5**	ug/L	1.0	1		12/30/21 23:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/21 23:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/30/21 23:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/30/21 23:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/30/21 23:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/30/21 23:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/30/21 23:40	563-58-6	R1
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/30/21 23:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/30/21 23:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/30/21 23:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/30/21 23:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		12/30/21 23:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/30/21 23:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/30/21 23:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/30/21 23:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/30/21 23:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/30/21 23:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/30/21 23:40	91-20-3	
Styrene	ND	ug/L	1.0	1		12/30/21 23:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/30/21 23:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/30/21 23:40	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: MW-25D-130 **Lab ID: 92580519001** Collected: 12/29/21 11:15 Received: 12/30/21 13:30 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							
Tetrachloroethene	ND	ug/L	1.0	1		12/30/21 23:40	127-18-4	
Toluene	ND	ug/L	1.0	1		12/30/21 23:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/30/21 23:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/30/21 23:40	120-82-1	
1,1,1-Trichloroethane	**3.3**	ug/L	1.0	1		12/30/21 23:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/30/21 23:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/30/21 23:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/30/21 23:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/30/21 23:40	96-18-4	R1
Vinyl acetate	ND	ug/L	2.0	1		12/30/21 23:40	108-05-4	v1
Vinyl chloride	ND	ug/L	1.0	1		12/30/21 23:40	75-01-4	R1
Xylene (Total)	ND	ug/L	1.0	1		12/30/21 23:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/30/21 23:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/30/21 23:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		12/30/21 23:40	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		12/30/21 23:40	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		12/30/21 23:40	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**29.1**	ug/L	2.0	1		01/03/22 18:10	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/03/22 18:10	17060-07-0	
Toluene-d8 (S)	99	%	66-133	1		01/03/22 18:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: MW-25D-192 **Lab ID: 92580519002** Collected: 12/29/21 11:30 Received: 12/30/21 13:30 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							
Acetone	ND	ug/L	25.0	1		01/03/22 16:00	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/22 16:00	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/03/22 16:00	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/03/22 16:00	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/03/22 16:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/03/22 16:00	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/03/22 16:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/03/22 16:00	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/03/22 16:00	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/03/22 16:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/03/22 16:00	75-00-3	v2
Chloroform	ND	ug/L	1.0	1		01/03/22 16:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/03/22 16:00	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/03/22 16:00	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/03/22 16:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/03/22 16:00	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/03/22 16:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/03/22 16:00	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/03/22 16:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/03/22 16:00	75-71-8	
1,1-Dichloroethane	**6.2**	ug/L	1.0	1		01/03/22 16:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/22 16:00	107-06-2	
1,1-Dichloroethene	**26.0**	ug/L	1.0	1		01/03/22 16:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/22 16:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/22 16:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/03/22 16:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/03/22 16:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/03/22 16:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/03/22 16:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/03/22 16:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/03/22 16:00	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/03/22 16:00	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/03/22 16:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/03/22 16:00	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/03/22 16:00	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/03/22 16:00	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/03/22 16:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/03/22 16:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/03/22 16:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/03/22 16:00	91-20-3	
Styrene	ND	ug/L	1.0	1		01/03/22 16:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/22 16:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/22 16:00	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: MW-25D-192 **Lab ID: 92580519002** Collected: 12/29/21 11:30 Received: 12/30/21 13:30 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							
Tetrachloroethene	ND	ug/L	1.0	1		01/03/22 16:00	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/22 16:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:00	120-82-1	
1,1,1-Trichloroethane	**3.4**	ug/L	1.0	1		01/03/22 16:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/03/22 16:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/03/22 16:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/03/22 16:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/03/22 16:00	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/03/22 16:00	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/03/22 16:00	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		01/03/22 16:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/03/22 16:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/03/22 16:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/03/22 16:00	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		01/03/22 16:00	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		01/03/22 16:00	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**21.6**	ug/L	2.0	1		01/03/22 18:29	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		01/03/22 18:29	17060-07-0	
Toluene-d8 (S)	98	%	66-133	1		01/03/22 18:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: DUP-12.29.21 **Lab ID: 92580519003** Collected: 12/29/21 11:00 Received: 12/30/21 13:30 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							
Acetone	ND	ug/L	25.0	1		01/03/22 16:18	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/22 16:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/03/22 16:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/03/22 16:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/03/22 16:18	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/03/22 16:18	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/03/22 16:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/03/22 16:18	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/03/22 16:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/03/22 16:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/03/22 16:18	75-00-3	v2
Chloroform	ND	ug/L	1.0	1		01/03/22 16:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/03/22 16:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/03/22 16:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/03/22 16:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/03/22 16:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/03/22 16:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/03/22 16:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/03/22 16:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/03/22 16:18	75-71-8	
1,1-Dichloroethane	**6.5**	ug/L	1.0	1		01/03/22 16:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/22 16:18	107-06-2	
1,1-Dichloroethene	**26.4**	ug/L	1.0	1		01/03/22 16:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/22 16:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/22 16:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/03/22 16:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/03/22 16:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/03/22 16:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/03/22 16:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/03/22 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/03/22 16:18	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/03/22 16:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/03/22 16:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/03/22 16:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/03/22 16:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/03/22 16:18	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/03/22 16:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/03/22 16:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/03/22 16:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/03/22 16:18	91-20-3	
Styrene	ND	ug/L	1.0	1		01/03/22 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/22 16:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/22 16:18	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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: DUP-12.29.21 **Lab ID: 92580519003** Collected: 12/29/21 11:00 Received: 12/30/21 13:30 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							
Tetrachloroethene	ND	ug/L	1.0	1		01/03/22 16:18	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/22 16:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/03/22 16:18	120-82-1	
1,1,1-Trichloroethane	**3.4**	ug/L	1.0	1		01/03/22 16:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/03/22 16:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/03/22 16:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/03/22 16:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/03/22 16:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/03/22 16:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/03/22 16:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		01/03/22 16:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/03/22 16:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/03/22 16:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		01/03/22 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		01/03/22 16:18	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		01/03/22 16:18	2037-26-5	
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	**21.1**	ug/L	2.0	1		01/03/22 18:49	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		01/03/22 18:49	17060-07-0	
Toluene-d8 (S)	100	%	66-133	1		01/03/22 18:49	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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: TRIP BLANK A **Lab ID: 92580519004** Collected: 12/29/21 00:00 Received: 12/30/21 13:30 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							
Acetone	ND	ug/L	25.0	1		01/03/22 12:58	67-64-1	
Benzene	ND	ug/L	1.0	1		01/03/22 12:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/03/22 12:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/03/22 12:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/03/22 12:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/03/22 12:58	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/03/22 12:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/03/22 12:58	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/03/22 12:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/03/22 12:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/03/22 12:58	75-00-3	v2
Chloroform	ND	ug/L	1.0	1		01/03/22 12:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/03/22 12:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/03/22 12:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/03/22 12:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/03/22 12:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/03/22 12:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/03/22 12:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/03/22 12:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 12:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 12:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/03/22 12:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/03/22 12:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/03/22 12:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/22 12:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/03/22 12:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/22 12:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/22 12:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/03/22 12:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/03/22 12:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/03/22 12:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/03/22 12:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/03/22 12:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/03/22 12:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/03/22 12:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		01/03/22 12:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		01/03/22 12:58	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/03/22 12:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/03/22 12:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		01/03/22 12:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/03/22 12:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/03/22 12:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/03/22 12:58	91-20-3	
Styrene	ND	ug/L	1.0	1		01/03/22 12:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/22 12:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/22 12:58	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Sample: TRIP BLANK A **Lab ID: 92580519004** Collected: 12/29/21 00:00 Received: 12/30/21 13:30 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							
Tetrachloroethene	ND	ug/L	1.0	1		01/03/22 12:58	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/22 12:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/03/22 12:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/03/22 12:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/22 12:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/03/22 12:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/03/22 12:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/03/22 12:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/03/22 12:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/03/22 12:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/03/22 12:58	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		01/03/22 12:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/03/22 12:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/03/22 12:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		01/03/22 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		01/03/22 12:58	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		01/03/22 12:58	2037-26-5	

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

QC Batch: 669320
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92580519001

METHOD BLANK: 3505103 Matrix: Water
Associated Lab Samples: 92580519001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/30/21 16:23	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/30/21 16:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/30/21 16:23	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/30/21 16:23	
1,1-Dichloroethane	ug/L	ND	1.0	12/30/21 16:23	
1,1-Dichloroethene	ug/L	ND	1.0	12/30/21 16:23	
1,1-Dichloropropene	ug/L	ND	1.0	12/30/21 16:23	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/30/21 16:23	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/30/21 16:23	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/30/21 16:23	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/30/21 16:23	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/30/21 16:23	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/30/21 16:23	
1,2-Dichloroethane	ug/L	ND	1.0	12/30/21 16:23	
1,2-Dichloropropane	ug/L	ND	1.0	12/30/21 16:23	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/30/21 16:23	
1,3-Dichloropropane	ug/L	ND	1.0	12/30/21 16:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/30/21 16:23	
2,2-Dichloropropane	ug/L	ND	1.0	12/30/21 16:23	
2-Butanone (MEK)	ug/L	ND	5.0	12/30/21 16:23	
2-Chlorotoluene	ug/L	ND	1.0	12/30/21 16:23	
2-Hexanone	ug/L	ND	5.0	12/30/21 16:23	
4-Chlorotoluene	ug/L	ND	1.0	12/30/21 16:23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/30/21 16:23	
Acetone	ug/L	ND	25.0	12/30/21 16:23	
Benzene	ug/L	ND	1.0	12/30/21 16:23	
Bromobenzene	ug/L	ND	1.0	12/30/21 16:23	
Bromochloromethane	ug/L	ND	1.0	12/30/21 16:23	
Bromodichloromethane	ug/L	ND	1.0	12/30/21 16:23	
Bromoform	ug/L	ND	1.0	12/30/21 16:23	
Bromomethane	ug/L	ND	2.0	12/30/21 16:23	v2
Carbon tetrachloride	ug/L	ND	1.0	12/30/21 16:23	
Chlorobenzene	ug/L	ND	1.0	12/30/21 16:23	
Chloroethane	ug/L	ND	1.0	12/30/21 16:23	
Chloroform	ug/L	ND	1.0	12/30/21 16:23	
Chloromethane	ug/L	ND	1.0	12/30/21 16:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/30/21 16:23	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/30/21 16:23	
Dibromochloromethane	ug/L	ND	1.0	12/30/21 16:23	
Dibromomethane	ug/L	ND	1.0	12/30/21 16:23	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

METHOD BLANK: 3505103 Matrix: Water
Associated Lab Samples: 92580519001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	12/30/21 16:23	
Diisopropyl ether	ug/L	ND	1.0	12/30/21 16:23	
Ethylbenzene	ug/L	ND	1.0	12/30/21 16:23	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	12/30/21 16:23	
m&p-Xylene	ug/L	ND	2.0	12/30/21 16:23	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/30/21 16:23	
Methylene Chloride	ug/L	ND	5.0	12/30/21 16:23	
Naphthalene	ug/L	ND	1.0	12/30/21 16:23	
o-Xylene	ug/L	ND	1.0	12/30/21 16:23	
p-Isopropyltoluene	ug/L	ND	1.0	12/30/21 16:23	
Styrene	ug/L	ND	1.0	12/30/21 16:23	
Tetrachloroethene	ug/L	ND	1.0	12/30/21 16:23	
Toluene	ug/L	ND	1.0	12/30/21 16:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/30/21 16:23	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/30/21 16:23	
Trichloroethene	ug/L	ND	1.0	12/30/21 16:23	
Trichlorofluoromethane	ug/L	ND	1.0	12/30/21 16:23	
Vinyl acetate	ug/L	ND	2.0	12/30/21 16:23	
Vinyl chloride	ug/L	ND	1.0	12/30/21 16:23	
Xylene (Total)	ug/L	ND	1.0	12/30/21 16:23	
1,2-Dichloroethane-d4 (S)	%	85	70-130	12/30/21 16:23	
4-Bromofluorobenzene (S)	%	102	70-130	12/30/21 16:23	
Toluene-d8 (S)	%	107	70-130	12/30/21 16:23	

LABORATORY CONTROL SAMPLE: 3505104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.9	96	70-130	
1,1,1-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	94	70-130	
1,1,2-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1-Dichloroethane	ug/L	50	51.6	103	70-130	
1,1-Dichloroethene	ug/L	50	48.9	98	70-132	
1,1-Dichloropropene	ug/L	50	55.1	110	70-131	
1,2,3-Trichlorobenzene	ug/L	50	48.4	97	70-134	
1,2,3-Trichloropropane	ug/L	50	45.0	90	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.4	97	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	70-130	
1,2-Dichlorobenzene	ug/L	50	46.7	93	70-130	
1,2-Dichloroethane	ug/L	50	48.0	96	70-130	
1,2-Dichloropropane	ug/L	50	54.8	110	70-130	
1,3-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,3-Dichloropropane	ug/L	50	47.7	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
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(704)875-9092

QUALITY CONTROL DATA

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

LABORATORY CONTROL SAMPLE: 3505104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.1	94	70-130	
2,2-Dichloropropane	ug/L	50	50.1	100	70-130	
2-Butanone (MEK)	ug/L	100	108	108	70-133	
2-Chlorotoluene	ug/L	50	45.1	90	70-130	
2-Hexanone	ug/L	100	84.5	84	70-130	
4-Chlorotoluene	ug/L	50	43.1	86	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.4	96	70-130	
Acetone	ug/L	100	99.4	99	70-144	
Benzene	ug/L	50	51.3	103	70-130	
Bromobenzene	ug/L	50	46.6	93	70-130	
Bromochloromethane	ug/L	50	57.5	115	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	50.7	101	70-131	
Bromomethane	ug/L	50	38.8	78	30-177	v2
Carbon tetrachloride	ug/L	50	49.0	98	70-130	
Chlorobenzene	ug/L	50	47.7	95	70-130	
Chloroethane	ug/L	50	41.6	83	46-131	
Chloroform	ug/L	50	51.6	103	70-130	
Chloromethane	ug/L	50	51.8	104	49-130	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.5	105	70-130	
Dibromochloromethane	ug/L	50	49.5	99	70-130	
Dibromomethane	ug/L	50	52.4	105	70-130	
Dichlorodifluoromethane	ug/L	50	45.5	91	52-134	
Diisopropyl ether	ug/L	50	51.3	103	70-131	
Ethylbenzene	ug/L	50	45.3	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.4	99	70-131	
m&p-Xylene	ug/L	100	90.5	90	70-130	
Methyl-tert-butyl ether	ug/L	50	54.5	109	70-130	
Methylene Chloride	ug/L	50	47.5	95	68-130	
Naphthalene	ug/L	50	47.1	94	70-133	
o-Xylene	ug/L	50	46.5	93	70-130	
p-Isopropyltoluene	ug/L	50	46.3	93	70-130	
Styrene	ug/L	50	47.1	94	70-130	
Tetrachloroethene	ug/L	50	47.9	96	70-130	
Toluene	ug/L	50	50.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	70-130	
Trichloroethene	ug/L	50	53.9	108	70-130	
Trichlorofluoromethane	ug/L	50	46.5	93	61-130	
Vinyl acetate	ug/L	100	116	116	70-140	
Vinyl chloride	ug/L	50	51.4	103	59-142	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			99	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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505105 3505106

Parameter	Units	92580519001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	14.0	19.1	70	95	70-135	30	30	
1,1,1-Trichloroethane	ug/L	3.3	20	20	21.2	27.0	89	118	70-148	24	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.6	19.3	73	97	70-131	28	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.3	21.6	82	108	70-136	28	30	
1,1-Dichloroethane	ug/L	3.0	20	20	21.0	26.7	90	119	70-147	24	30	
1,1-Dichloroethene	ug/L	45.5	20	20	64.3	70.0	94	122	70-158	9	30	
1,1-Dichloropropene	ug/L	ND	20	20	17.2	23.8	86	119	70-149	33	30	R1
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.8	19.1	79	96	68-140	19	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	14.1	19.2	70	96	67-137	31	30	R1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.5	19.3	77	97	70-139	22	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.4	19.1	72	95	69-136	28	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	14.0	19.1	70	95	70-137	31	30	R1
1,2-Dichlorobenzene	ug/L	ND	20	20	14.6	18.9	73	95	70-133	26	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.5	21.9	80	107	67-138	28	30	
1,2-Dichloropropane	ug/L	ND	20	20	17.2	22.9	86	115	70-138	29	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	14.7	19.0	74	95	70-133	25	30	
1,3-Dichloropropane	ug/L	ND	20	20	14.0	18.9	70	94	70-136	30	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.8	19.3	74	97	70-133	26	30	
2,2-Dichloropropane	ug/L	ND	20	20	16.8	22.6	84	113	52-155	29	30	
2-Butanone (MEK)	ug/L	ND	40	40	31.6	42.7	79	107	61-147	30	30	
2-Chlorotoluene	ug/L	ND	20	20	14.7	19.2	73	96	70-141	26	30	
2-Hexanone	ug/L	ND	40	40	27.3	35.8	68	90	67-139	27	30	
4-Chlorotoluene	ug/L	ND	20	20	14.2	18.5	71	92	70-135	26	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	30.3	40.6	76	101	67-136	29	30	
Acetone	ug/L	ND	40	40	28.9	39.3	72	98	55-159	30	30	
Benzene	ug/L	ND	20	20	16.6	22.1	83	110	67-150	29	30	
Bromobenzene	ug/L	ND	20	20	14.6	19.1	73	96	70-134	26	30	
Bromochloromethane	ug/L	ND	20	20	18.1	24.5	91	122	70-146	30	30	
Bromodichloromethane	ug/L	ND	20	20	16.0	21.1	80	105	70-138	27	30	
Bromoform	ug/L	ND	20	20	14.6	20.0	73	100	57-138	31	30	R1
Bromomethane	ug/L	ND	20	20	17.1	21.9	86	110	10-200	25	30	
Carbon tetrachloride	ug/L	ND	20	20	16.4	21.7	82	108	70-147	28	30	
Chlorobenzene	ug/L	ND	20	20	15.1	20.1	76	100	70-137	28	30	
Chloroethane	ug/L	ND	20	20	20.7	26.6	104	133	51-166	25	30	
Chloroform	ug/L	ND	20	20	16.9	22.7	84	113	70-144	30	30	
Chloromethane	ug/L	ND	20	20	17.8	23.8	89	119	24-161	29	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.5	23.2	88	116	67-148	28	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.5	21.0	78	105	70-142	30	30	
Dibromochloromethane	ug/L	ND	20	20	14.1	18.9	71	95	68-138	29	30	
Dibromomethane	ug/L	ND	20	20	16.8	22.3	84	111	70-134	28	30	
Dichlorodifluoromethane	ug/L	ND	20	20	14.3	19.3	71	96	43-155	30	30	
Diisopropyl ether	ug/L	ND	20	20	15.6	21.1	78	106	65-146	30	30	
Ethylbenzene	ug/L	ND	20	20	15.0	19.4	75	97	68-143	26	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.4	20.6	87	103	62-151	17	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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505105 3505106

Parameter	Units	92580519001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	40	40	29.8	39.4	75	98	53-157	28	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.7	20.9	78	104	59-156	29	30	
Methylene Chloride	ug/L	ND	20	20	16.3	21.9	82	110	64-148	29	30	
Naphthalene	ug/L	ND	20	20	14.5	17.7	72	89	57-150	20	30	
o-Xylene	ug/L	ND	20	20	15.0	19.8	75	99	68-143	28	30	
p-Isopropyltoluene	ug/L	ND	20	20	15.1	19.1	76	96	70-141	23	30	
Styrene	ug/L	ND	20	20	14.9	19.5	75	98	70-136	27	30	
Tetrachloroethene	ug/L	ND	20	20	14.7	19.8	74	99	70-139	29	30	
Toluene	ug/L	ND	20	20	16.9	21.9	84	109	47-157	26	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.9	24.1	89	120	70-149	30	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.4	20.2	77	101	70-138	27	30	
Trichloroethene	ug/L	ND	20	20	17.0	22.5	85	113	70-149	28	30	
Trichlorofluoromethane	ug/L	ND	20	20	16.6	22.3	83	112	61-154	29	30	
Vinyl acetate	ug/L	ND	40	40	34.1	46.2	85	116	48-156	30	30	v1
Vinyl chloride	ug/L	ND	20	20	17.2	23.6	86	118	55-172	31	30	R1
Xylene (Total)	ug/L	ND	60	60	44.8	59.2	75	99	66-145	28	30	
1,2-Dichloroethane-d4 (S)	%						97	94	70-130			
4-Bromofluorobenzene (S)	%						102	101	70-130			
Toluene-d8 (S)	%						104	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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

QC Batch: 669322
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92580519002, 92580519003, 92580519004

METHOD BLANK: 3505109 Matrix: Water
Associated Lab Samples: 92580519002, 92580519003, 92580519004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/03/22 12:22	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/03/22 12:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/03/22 12:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/03/22 12:22	
1,1-Dichloroethane	ug/L	ND	1.0	01/03/22 12:22	
1,1-Dichloroethene	ug/L	ND	1.0	01/03/22 12:22	
1,1-Dichloropropene	ug/L	ND	1.0	01/03/22 12:22	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/03/22 12:22	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/03/22 12:22	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/03/22 12:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	01/03/22 12:22	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/03/22 12:22	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/03/22 12:22	
1,2-Dichloroethane	ug/L	ND	1.0	01/03/22 12:22	
1,2-Dichloropropane	ug/L	ND	1.0	01/03/22 12:22	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/03/22 12:22	
1,3-Dichloropropane	ug/L	ND	1.0	01/03/22 12:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/03/22 12:22	
2,2-Dichloropropane	ug/L	ND	1.0	01/03/22 12:22	
2-Butanone (MEK)	ug/L	ND	5.0	01/03/22 12:22	
2-Chlorotoluene	ug/L	ND	1.0	01/03/22 12:22	
2-Hexanone	ug/L	ND	5.0	01/03/22 12:22	
4-Chlorotoluene	ug/L	ND	1.0	01/03/22 12:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/03/22 12:22	
Acetone	ug/L	ND	25.0	01/03/22 12:22	
Benzene	ug/L	ND	1.0	01/03/22 12:22	
Bromobenzene	ug/L	ND	1.0	01/03/22 12:22	
Bromochloromethane	ug/L	ND	1.0	01/03/22 12:22	
Bromodichloromethane	ug/L	ND	1.0	01/03/22 12:22	
Bromoform	ug/L	ND	1.0	01/03/22 12:22	
Bromomethane	ug/L	ND	2.0	01/03/22 12:22	
Carbon tetrachloride	ug/L	ND	1.0	01/03/22 12:22	
Chlorobenzene	ug/L	ND	1.0	01/03/22 12:22	
Chloroethane	ug/L	ND	1.0	01/03/22 12:22	v2
Chloroform	ug/L	ND	1.0	01/03/22 12:22	
Chloromethane	ug/L	ND	1.0	01/03/22 12:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/03/22 12:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/03/22 12:22	
Dibromochloromethane	ug/L	ND	1.0	01/03/22 12:22	
Dibromomethane	ug/L	ND	1.0	01/03/22 12:22	

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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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

METHOD BLANK: 3505109 Matrix: Water
Associated Lab Samples: 92580519002, 92580519003, 92580519004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	01/03/22 12:22	
Diisopropyl ether	ug/L	ND	1.0	01/03/22 12:22	
Ethylbenzene	ug/L	ND	1.0	01/03/22 12:22	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	01/03/22 12:22	
m&p-Xylene	ug/L	ND	2.0	01/03/22 12:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/03/22 12:22	
Methylene Chloride	ug/L	ND	5.0	01/03/22 12:22	
Naphthalene	ug/L	ND	1.0	01/03/22 12:22	
o-Xylene	ug/L	ND	1.0	01/03/22 12:22	
p-Isopropyltoluene	ug/L	ND	1.0	01/03/22 12:22	
Styrene	ug/L	ND	1.0	01/03/22 12:22	
Tetrachloroethene	ug/L	ND	1.0	01/03/22 12:22	
Toluene	ug/L	ND	1.0	01/03/22 12:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/03/22 12:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/03/22 12:22	
Trichloroethene	ug/L	ND	1.0	01/03/22 12:22	
Trichlorofluoromethane	ug/L	ND	1.0	01/03/22 12:22	
Vinyl acetate	ug/L	ND	2.0	01/03/22 12:22	
Vinyl chloride	ug/L	ND	1.0	01/03/22 12:22	
Xylene (Total)	ug/L	ND	1.0	01/03/22 12:22	
1,2-Dichloroethane-d4 (S)	%	108	70-130	01/03/22 12:22	
4-Bromofluorobenzene (S)	%	97	70-130	01/03/22 12:22	
Toluene-d8 (S)	%	105	70-130	01/03/22 12:22	

LABORATORY CONTROL SAMPLE: 3505110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	70-130	
1,1,1-Trichloroethane	ug/L	50	43.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,2-Trichloroethane	ug/L	50	46.6	93	70-130	
1,1-Dichloroethane	ug/L	50	42.4	85	70-130	
1,1-Dichloroethene	ug/L	50	40.7	81	70-132	
1,1-Dichloropropene	ug/L	50	42.5	85	70-131	
1,2,3-Trichlorobenzene	ug/L	50	50.6	101	70-134	
1,2,3-Trichloropropane	ug/L	50	46.4	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.5	107	70-132	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,2-Dichloroethane	ug/L	50	42.1	84	70-130	
1,2-Dichloropropane	ug/L	50	45.3	91	70-130	
1,3-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,3-Dichloropropane	ug/L	50	46.4	93	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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

LABORATORY CONTROL SAMPLE: 3505110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	48.1	96	70-130	
2,2-Dichloropropane	ug/L	50	43.7	87	70-130	
2-Butanone (MEK)	ug/L	100	89.4	89	70-133	
2-Chlorotoluene	ug/L	50	47.2	94	70-130	
2-Hexanone	ug/L	100	98.5	98	70-130	
4-Chlorotoluene	ug/L	50	45.7	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.2	94	70-130	
Acetone	ug/L	100	89.1	89	70-144	
Benzene	ug/L	50	44.3	89	70-130	
Bromobenzene	ug/L	50	47.4	95	70-130	
Bromochloromethane	ug/L	50	45.1	90	70-130	
Bromodichloromethane	ug/L	50	46.2	92	70-130	
Bromoform	ug/L	50	50.6	101	70-131	
Bromomethane	ug/L	50	42.7	85	30-177	
Carbon tetrachloride	ug/L	50	45.5	91	70-130	
Chlorobenzene	ug/L	50	46.9	94	70-130	
Chloroethane	ug/L	50	39.3	79	46-131	v3
Chloroform	ug/L	50	42.3	85	70-130	
Chloromethane	ug/L	50	43.5	87	49-130	
cis-1,2-Dichloroethene	ug/L	50	42.1	84	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.2	92	70-130	
Dibromochloromethane	ug/L	50	49.4	99	70-130	
Dibromomethane	ug/L	50	46.8	94	70-130	
Dichlorodifluoromethane	ug/L	50	44.8	90	52-134	
Diisopropyl ether	ug/L	50	41.6	83	70-131	
Ethylbenzene	ug/L	50	46.6	93	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.7	101	70-131	
m&p-Xylene	ug/L	100	94.9	95	70-130	
Methyl-tert-butyl ether	ug/L	50	43.4	87	70-130	
Methylene Chloride	ug/L	50	40.7	81	68-130	
Naphthalene	ug/L	50	51.2	102	70-133	
o-Xylene	ug/L	50	46.5	93	70-130	
p-Isopropyltoluene	ug/L	50	48.1	96	70-130	
Styrene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	45.6	91	70-130	
Toluene	ug/L	50	44.6	89	70-130	
trans-1,2-Dichloroethene	ug/L	50	41.8	84	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.5	93	70-130	
Trichloroethene	ug/L	50	45.1	90	70-130	
Trichlorofluoromethane	ug/L	50	41.0	82	61-130	
Vinyl acetate	ug/L	100	97.5	98	70-140	
Vinyl chloride	ug/L	50	44.5	89	59-142	
Xylene (Total)	ug/L	150	141	94	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	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: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505111 3505112

Parameter	Units	92580519003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.0	21.5	105	108	70-135	2	30	
1,1,1-Trichloroethane	ug/L	3.4	20	20	23.2	23.5	99	100	70-148	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.9	21.2	105	106	70-131	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.2	20.5	101	103	70-136	2	30	
1,1-Dichloroethane	ug/L	6.5	20	20	25.8	25.6	97	96	70-147	1	30	
1,1-Dichloroethene	ug/L	26.4	20	20	42.6	43.9	81	87	70-158	3	30	
1,1-Dichloropropene	ug/L	ND	20	20	19.8	19.9	99	99	70-149	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.0	22.7	110	113	68-140	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.8	21.1	104	105	67-137	1	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.1	22.3	106	111	70-139	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.5	22.8	108	114	69-136	6	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.5	21.5	102	107	70-137	5	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.3	22.1	107	110	70-133	3	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.8	19.7	97	97	67-138	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.7	20.9	104	105	70-138	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.6	22.7	108	113	70-133	5	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.0	21.4	105	107	70-136	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.7	22.4	108	112	70-133	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	20.0	19.9	100	100	52-155	0	30	
2-Butanone (MEK)	ug/L	ND	40	40	40.1	39.5	100	99	61-147	1	30	
2-Chlorotoluene	ug/L	ND	20	20	22.2	22.7	111	113	70-141	2	30	
2-Hexanone	ug/L	ND	40	40	43.8	44.5	109	111	67-139	2	30	
4-Chlorotoluene	ug/L	ND	20	20	21.4	22.0	107	110	70-135	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	42.9	42.3	107	106	67-136	1	30	
Acetone	ug/L	ND	40	40	38.2	38.8	95	97	55-159	2	30	
Benzene	ug/L	ND	20	20	19.9	20.1	100	101	67-150	1	30	
Bromobenzene	ug/L	ND	20	20	21.5	22.2	108	111	70-134	3	30	
Bromochloromethane	ug/L	ND	20	20	19.4	19.8	97	99	70-146	2	30	
Bromodichloromethane	ug/L	ND	20	20	20.3	20.8	102	104	70-138	3	30	
Bromoform	ug/L	ND	20	20	20.1	20.7	101	104	57-138	3	30	
Bromomethane	ug/L	ND	20	20	14.9	19.0	75	95	10-200	24	30	
Carbon tetrachloride	ug/L	ND	20	20	20.8	21.2	104	106	70-147	2	30	
Chlorobenzene	ug/L	ND	20	20	20.9	21.9	104	109	70-137	5	30	
Chloroethane	ug/L	ND	20	20	21.9	22.1	110	111	51-166	1	30	v3
Chloroform	ug/L	ND	20	20	20.2	20.3	101	101	70-144	0	30	
Chloromethane	ug/L	ND	20	20	20.6	20.2	103	101	24-161	2	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.9	19.7	99	99	67-148	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.8	20.4	99	102	70-142	3	30	
Dibromochloromethane	ug/L	ND	20	20	20.6	21.1	103	106	68-138	3	30	
Dibromomethane	ug/L	ND	20	20	19.6	20.0	98	100	70-134	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	19.6	19.7	98	99	43-155	0	30	
Diisopropyl ether	ug/L	ND	20	20	18.7	18.6	94	93	65-146	1	30	
Ethylbenzene	ug/L	ND	20	20	21.3	21.7	107	108	68-143	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.6	22.0	108	110	62-151	2	30	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505111 3505112

Parameter	Units	92580519003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
m&p-Xylene	ug/L	ND	40	40	42.7	43.5	107	109	53-157	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.1	20.4	96	98	59-156	1	30	
Methylene Chloride	ug/L	ND	20	20	19.5	19.7	98	98	64-148	1	30	
Naphthalene	ug/L	ND	20	20	21.2	22.6	106	113	57-150	6	30	
o-Xylene	ug/L	ND	20	20	20.4	21.3	102	106	68-143	4	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.0	22.7	110	113	70-141	3	30	
Styrene	ug/L	ND	20	20	20.6	21.4	103	107	70-136	4	30	
Tetrachloroethene	ug/L	ND	20	20	20.1	20.7	100	104	70-139	3	30	
Toluene	ug/L	ND	20	20	20.3	20.6	101	103	47-157	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.1	19.9	95	99	70-149	4	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.3	100	101	70-138	1	30	
Trichloroethene	ug/L	ND	20	20	20.0	20.9	100	105	70-149	5	30	
Trichlorofluoromethane	ug/L	ND	20	20	19.9	20.1	100	101	61-154	1	30	
Vinyl acetate	ug/L	ND	40	40	42.4	41.8	106	104	48-156	1	30	
Vinyl chloride	ug/L	ND	20	20	20.4	20.3	102	101	55-172	1	30	
Xylene (Total)	ug/L	ND	60	60	63.1	64.8	105	108	66-145	3	30	
1,2-Dichloroethane-d4 (S)	%						102	101	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

QC Batch: 669494
QC Batch Method: EPA 8260D Mod.
Analysis Method: EPA 8260D Mod.
Analysis Description: 8260D MSV SIM
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92580519001, 92580519002, 92580519003

METHOD BLANK: 3505593 Matrix: Water
Associated Lab Samples: 92580519001, 92580519002, 92580519003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	01/03/22 14:19	
1,2-Dichloroethane-d4 (S)	%	94	70-130	01/03/22 14:19	
Toluene-d8 (S)	%	92	66-133	01/03/22 14:19	

LABORATORY CONTROL SAMPLE: 3505594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
Toluene-d8 (S)	%			90	66-133	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3505595 3505596

Parameter	Units	92580514003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	11.1	20	20	31.5	30.3	102	96	64-141	4	30	
1,2-Dichloroethane-d4 (S)	%						90	91	70-130		30	
Toluene-d8 (S)	%						92	92	66-133		30	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER KOP-FLEX FACILITY SITE
Pace Project No.: 92580519

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92580519001	**MW-25D-130**	EPA 8260D	669320		
92580519002	**MW-25D-192**	EPA 8260D	669322		
92580519003	**DUP-12.29.21**	EPA 8260D	669322		
92580519004	**TRIP BLANK A**	EPA 8260D	669322		
92580519001	**MW-25D-130**	EPA 8260D Mod.	669494		
92580519002	**MW-25D-192**	EPA 8260D Mod.	669494		
92580519003	**DUP-12.29.21**	EPA 8260D Mod.	669494		

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

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

Sample Condition Upon Receipt

Client Name: WSP

Project #: WO# : 92580519

92580519

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

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

Date/Initials Person Examining Contents: 12/30/21 JC

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

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

Thermometer: ☒ IR Gun ID: 42064

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

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? 12-30-21 JC	☐ 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

No "DUP-122921" sample received.

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# : 92580519**

PM: BV Due Date: 01/11/22

CLIENT: 92-WSP

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)	BP4B-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 Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 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																3													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® WWW.PACELABS.COM

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	WSP Environmental Strategies	Report To:	Eric Johnson	Attention:	
Address:	13530 Dulles Technology Drive	Copy To:		Company Name:	
Herndon, VA 20171				Address:	
Email:	eric.johnson@wsp.com	Purchase Order #:		Pace Quote:	31401545.010/3
Phone:	NONE Fax	Project Name:	Former Kop-Flex Facility Site - Onsite	Pace Project Manager:	bonnie.vang@pacelabs.com,
Requested Due Date:		Project #:	31401545.011	Pace Profile #:	3610-8

Regulatory Agency
State / Location
MD

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	VOC by 8260	1,4-Dioxane	Trip BLANK	Residual Chlorine (Y/N)	92580519
1	MW-25D-130	WT	G			12/21/21	1115						X						X	X			001
2	MW-25D-192	WT	G			12/21/21	1130						X						X	X			002
3	~~MW-100-122921~~ DUP-122921	WT	G			12/21/21	1100						X						X	X			003
4	Trip Blank - A	WT											X								X		004
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Elliott Martynkiewicz	12/29/21	1335	JV PACE HVL	12-30-21	1334	1.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elliott Martynkiewicz

SIGNATURE of SAMPLER: Elliott Martynkiewicz DATE Signed: 12/29/21

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