



VIA ELECTRONIC MAIL

March 3, 2022

Richelle Hanson, Project Manager
Voluntary Cleanup Program
Maryland Department of the Environment
Land and Materials Administration
1800 Washington Blvd., Suite 625
Baltimore, Maryland 21230

**Subject: Quarterly Status Report No. 21 - Offsite Area
Former Kop-Flex Facility Site, Hanover, Maryland**

Dear Richelle:

On behalf of EMERSUB 16 LLC, a subsidiary of Emerson Electric Co., WSP USA Inc. (WSP) is submitting this quarterly status report describing the response action activities conducted in the Fourth Quarter of 2021 in the offsite portion of the Former Kop-Flex Facility Site (Site) in Hanover, Maryland. In addition to this electronic version, a hard copy of the status report is being submitted to the Maryland Department of Environment (MDE) under separate cover. Overall, information presented on the hydrogeologic conditions and water quality for the impacted portion of the aquifer system in the offsite area are consistent with previously collected data.

If you have any questions, please do not hesitate to contact us at 703-709-6500.

Kind regards,

Robert E. Johnson
Director, Geological Sciences – Earth & Environment

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Encl.

cc: Mr. John Hopkins, U.S. Environmental Protection Agency (EPA), Region III
Mr. Stephen Clarke, Emerson Electric Co.
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QUARTERLY STATUS REPORT NO. 21 – OFFSITE AREA

FORMER KOP-FLEX FACILITY SITE

October 2021 Through December 2021

Site Name: Former Kop-Flex Facility
Site Address: 7555 Harmans Road
Hanover, Maryland 21076

Consultant: WSP USA Inc.
Address: 13530 Dulles Technology Drive, Suite 300
Herndon, Virginia 20171
Phone No.: (703) 709-6500

Project Coordinator: Eric Johnson, WSP USA
Alternate: Lisa Kelly, WSP USA

1.0 OFFSITE ACTIVITIES CONDUCTED DURING OCTOBER 2021 - DECEMBER 2021 REPORTING PERIOD

— Offsite monitoring wells screened in the deep confined zone of the Lower Patapsco aquifer and underlying Patuxent aquifer were sampled on November 14 and 15, 2021, and December 27, 2021 using a disposable passive sampling device (HydraSleeve™) that had been deployed following the sampling of the wells in May 2021. The paired MW-25D wells were not accessible during the mid-November 2021 sampling activities because a disabled vehicle with flat tires was parked over the top of the wells. The WSP field sampling team made multiple attempts to locate the owner of the vehicle but was not successful. WSP staff returned to the area in late December 2021 and found the monitoring well pair accessible, whereupon samples were collected from the wells.

At each well location, the Hydrasleeve™ sampler was carefully removed and the groundwater sample immediately collected in the appropriate laboratory-supplied containers. The sample retrieval depths for each well were consistent with those from previous monitoring events and are provided further below.

As part of the sampling activities, WSP measured the depth to water in all monitoring wells. Depth to water measurements for the deep monitoring wells are provided in the table below. Since the onsite hydraulic containment system was shut down a few days before measuring the depth to water in the monitoring wells, the water level data provided in the table reflect the hydraulic heads under non-remedial pumping conditions. Historical water level measurements are provided in Table 1.

WELL ID	HYDROLOGIC UNIT	DEPTH TO WATER (FT BGS)	WELL DEPTH (FT BGS)	WELL SCREEN INTERVAL (FT BGS)	SAMPLE INTERVAL (FT BGS)
MW-24D	Confined Lower Patapsco	49.40	128	118 – 128	122 – 124.5
MW-25D-130*	Confined Lower Patapsco	NA	130	120 – 130	125 – 127.5
MW-25D-192*	Confined Lower Patapsco	NA	192	182 – 192	185 – 187.5
MW-28D	Confined Lower Patapsco	89.34	210	200 – 210	205 – 207.5



WELL ID	HYDROLOGIC UNIT	DEPTH TO WATER (FT BGS)	WELL DEPTH (FT BGS)	WELL SCREEN INTERVAL (FT BGS)	SAMPLE INTERVAL (FT BGS)
MW-29D	Confined Lower Patapsco	64.82	151	141 – 151	146 – 148.5
MW-30D-273	Confined Lower Patapsco	99.70	273	263 – 273	267 – 269.5
MW-30D-413	Patuxent	140.69	413	403 – 413	407 – 409.5
MW-31D	Confined Lower Patapsco	108.09	280	270 – 280	275 – 277.5
MW-32D	Confined Lower Patapsco	99.72	236	226 – 236	233 – 235.5
MW-33D-235	Confined Lower Patapsco	125.35	235	225 – 235	230 – 232.5
MW-33D-295	Confined Lower Patapsco	125.15	295	285 – 295	290 – 292.5
MW-34D	Confined Lower Patapsco	133.82	385	375 – 385	379 – 381.5
MW-35D	Confined Lower Patapsco	126.19	298	288 – 298	293 – 295.5
MW-36D	Patuxent	143.70	360	350 – 360	357 – 359.5
MW-46D	Confined Lower Patapsco	35.62	90	80 – 90	84 – 86.5

FT BGS = feet below ground surface

* = Samples from well collected in late December 2021

- A potentiometric surface contour map for the deep confined zone of the Lower Patapsco aquifer is shown in Figure 1 using the water level data obtained during the November 2021 sampling activities. The contours in Figure 1 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. As indicated by the hydraulic head gradients, the groundwater flow direction in the deep confined 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.
- The analytical results for samples collected from the offsite monitoring wells in mid-November and late December 2021 are summarized in Table 2. Copies of the certified laboratory analytical reports for these samples are provided in Enclosure A. Historical groundwater sampling data for the offsite monitoring wells can be found in Table 3. Concentrations of the primary site-related constituents of concern (COCs) in the 2021 samples are shown on Figure 2.

Overall, the analytical data indicates 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 from this portion of the Lower Patapsco aquifer obtained from well MW-46D on the neighboring Verizon property, which is located to the north of the former Kop-Flex facility.



While MW-46D is not located south-southeast of the site, the presence of detectable COC levels is most likely due to the past releases at the Site, given the well's close proximity of the former Kop-Flex facility. This total COC concentration in the MW-46D sample (192.5 micrograms per liter [$\mu\text{g/l}$]) is less than the level present in the previous (May 2021) sample (250.3 $\mu\text{g/l}$). The concentrations of 1,1-dichloroethene (DCE); 1,1-dichloroethane (DCA); and 1,4-dioxane show a decrease from the May to November 2021 sampling events. However, all of these COCs also exceeded their respective comparative groundwater quality criteria sample (Table 2).

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 (1,943.1 $\mu\text{g/l}$). This total COC concentration is the highest detected since March 2016, mostly due to a noticeable spike in the 1,1-DCE concentration (Table 3). The levels for other detected COCs are similar to or slightly higher than recent samples from this well. Further downgradient, a total concentration of site-related COCs of 80.9 $\mu\text{g/l}$ was detected in the MW-25D-130 sample, which is slightly lower than the May 2021 event (87.1 $\mu\text{g/l}$), and greater than the concentrations in the sample from the deeper well MW-25D-192 at this location (57.2 $\mu\text{g/l}$). The concentrations of site-related COCs, particularly 1,1-DCE; 1,1-DCA; and 1,4-dioxane, in the MW-25D-130 samples appear to be stabilizing or continuing to decrease. The results for well MW-25D-192 showed comparable COC concentrations to the previous (May) samples, which are noticeably lower than levels from the 2018 through 2020 monitoring events. Even though the total concentrations of site-related COCs decreased in the May and December 2021 samples, 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 2 and Table 2). 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 center-line of the VOC plume. The groundwater sample from this well (MW-30D-273) contained 1,1-DCE at 34.1 $\mu\text{g/l}$ and 1,4-dioxane at 16.6 $\mu\text{g/l}$, both above their respective groundwater quality criteria, and very similar to the results from the last several sampling events. In addition, the concentrations of 1,1-DCE (8.1 $\mu\text{g/l}$) and 1,4-dioxane (5.1 $\mu\text{g/l}$) in the MW-28D sample and 1,4-dioxane (6.1 $\mu\text{g/l}$) in the sample from the deeper well at the MW-33D location slightly exceeded their respective comparative criteria. The concentrations of 1,4-dioxane in the MW-33D-295 sample and 1,1-DCE in the MW-28D sample are consistent with recent monitoring events. The 1,4-dioxane concentration in MW-28D has not exceeded the MDE risk based action level of 4.6 $\mu\text{g/l}$ since September 2016.

The sample results for the remaining offsite wells screened in the deep, confined 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. These monitoring wells are used to delineate the width and downgradient extent of the COC plume in this portion of the aquifer.

Monitoring well MW-36 and the deeper well at the MW-30D location (413-foot BGS) are screened in the Patuxent aquifer, which underlies the Lower Patapsco. Consistent with previous monitoring events, no site-related COCs were detected in the samples from these wells, indicating constituents have not migrated downward through the Arundel Clay confining unit that hydraulically separates the Lower Patapsco and Patuxent aquifers.

2.0 PLANNED OFFSITE ACTIVITIES FOR NEXT REPORTING PERIOD (JANUARY 2022 THROUGH MARCH 2022)

No field activities are planned for the first quarter 2022 reporting period. Pursuant to the approved Offsite Groundwater Monitoring Plan (dated September 15, 2015), groundwater monitoring is currently conducted on a semi-annual schedule. Therefore, the next groundwater monitoring event for the offsite well network will be performed during the Spring (May) of 2022.

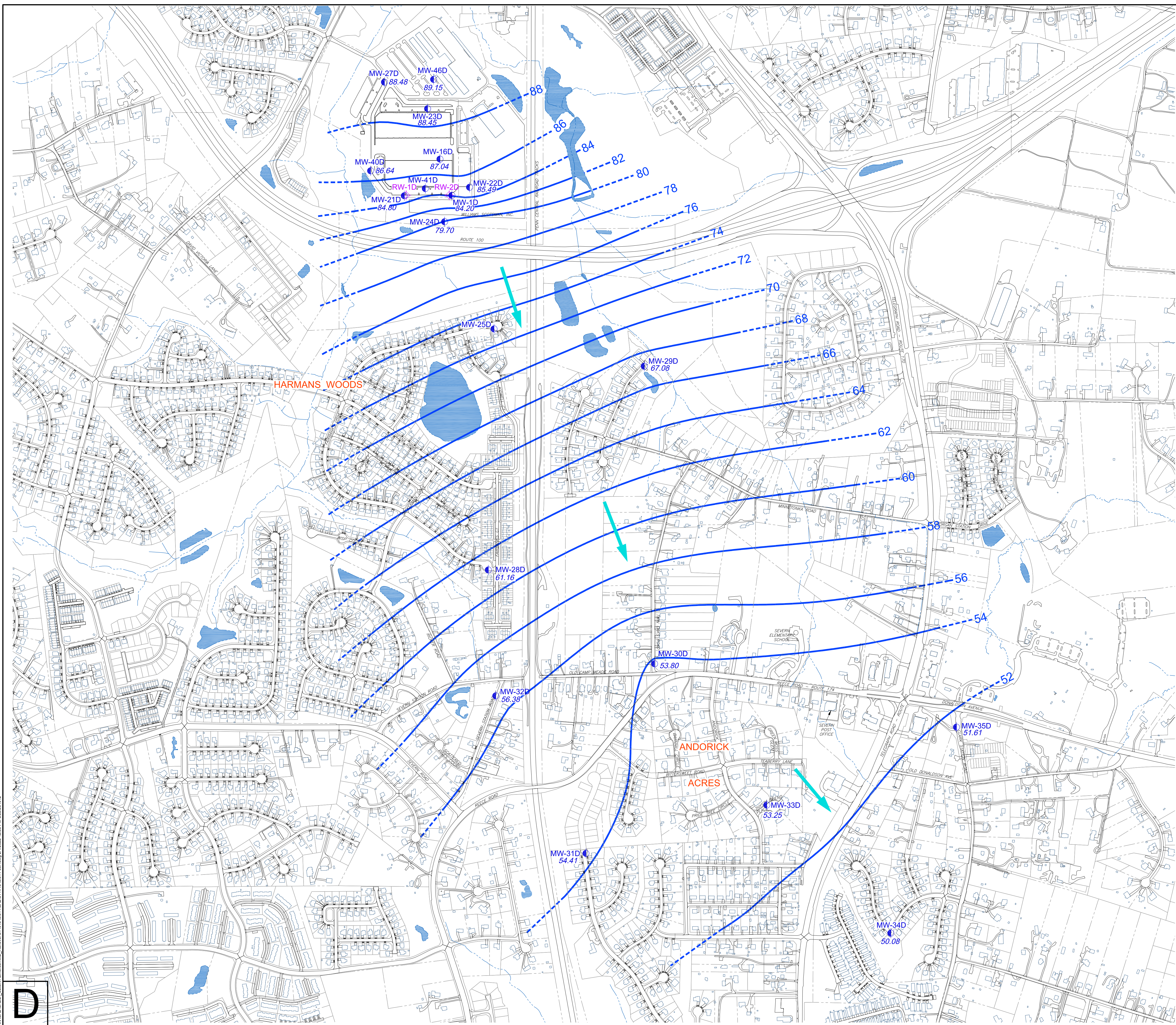


WSP will begin preparation of the 2021 Offsite Groundwater Monitoring Report during the first quarter of 2022. This report will be submitted to MDE and the U.S. Environmental Protection Agency (EPA), Region III in mid to late March 2022.

3.0 KEY PERSONNEL/FACILITY CHANGES

There were no changes to either key project personnel or conditions relevant to the performance of the ongoing work at the offsite area.

FIGURES



- 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.

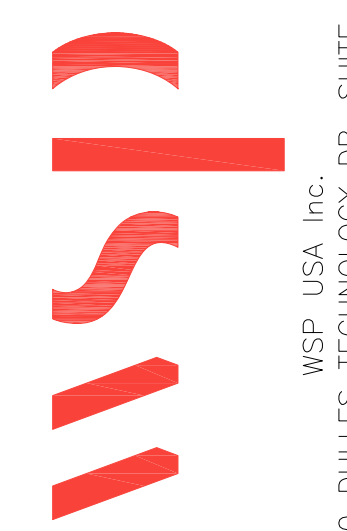
REVISIONS	
REV	DESCRIPTION

DRAWN BY	ECG	SEAL
CHECKED	2/14/2022	
APPROVED	2/17/2022	

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POTENTIOMETRIC SURFACE CONTOUR MAP DEEP CONFINED ZONE OF THE LOWER PATAPSCO AQUIFER
 NOVEMBER 2021
 FORMER KOP-FLEX FACILITY SITE
 HANOVER, MARYLAND
 PREPARED FOR
 EMERSUB 16 LLC
 ST. LOUIS, MISSOURI



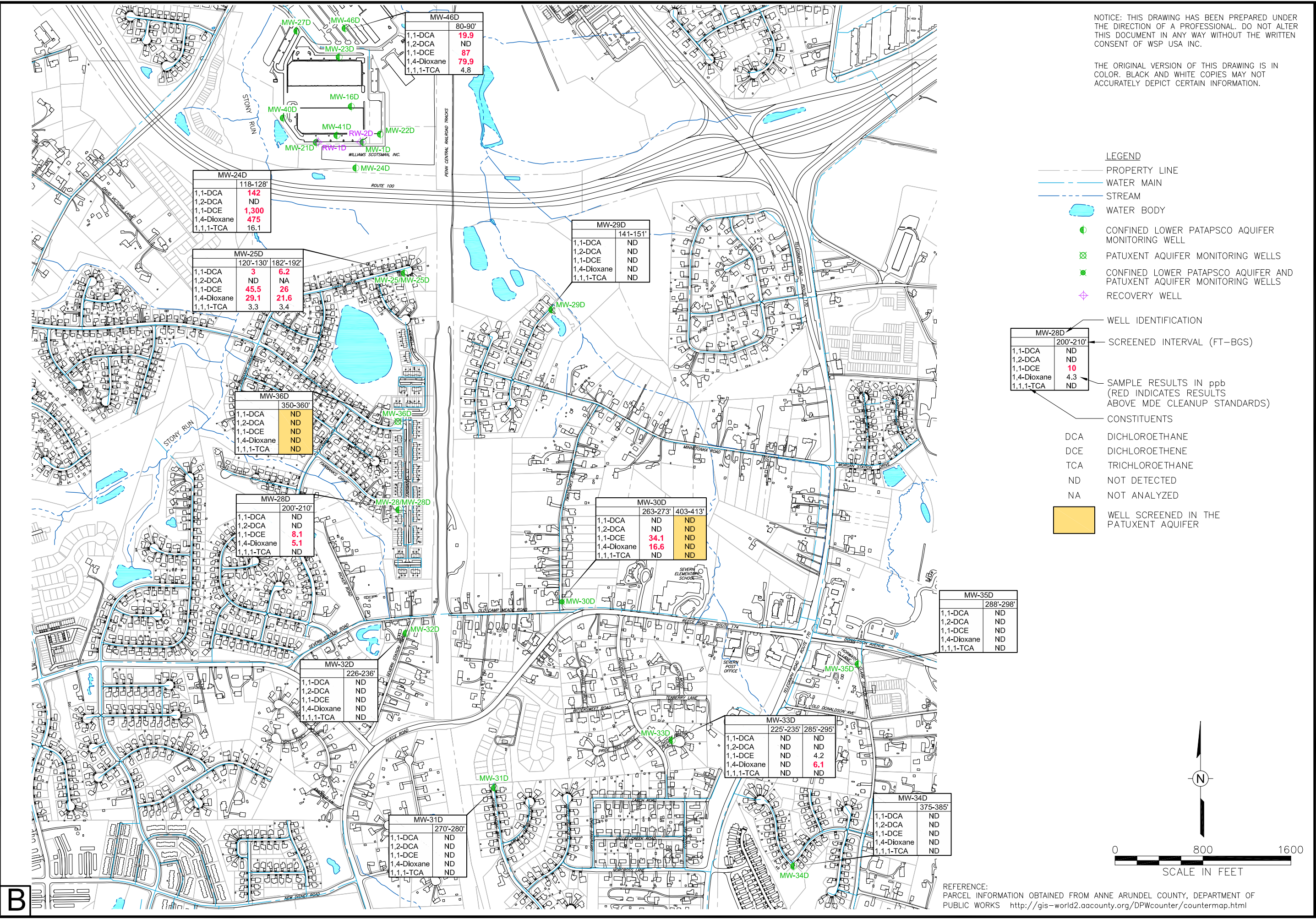
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FIGURE 1
 Drawing Number
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FORMER FOP-FLEX FACILITY
 HANOVER, MARYLAND
 PREPARED FOR
 EMERSUB 16 LLC
 ST. LOUIS, MISSOURI

Figure 2
 GROUNDWATER MONITORING RESULTS
 LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER
 OFFSITE MONITORING WELLS - NOVEMBER 2021

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TABLES

Table 1

**Historical Groundwater Elevations (2015 through 2021)
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		12/7/2016	
			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	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	14.61	115.99
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	26.8	123.70
MW-45	Unconfined LPA	126.7	NM	-	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	46.3	82.80
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	50.27	80.23
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	52.4	78.10
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	83.35	67.15
MW-29D	Confined LPA	131.9	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-30D-273	Confined LPA	153.5	NM	-	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	114.20	48.30
MW-32D	Confined LPA	156.1	NM	-	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	114.2	64.40
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	131.50	46.80
MW-34D	Confined LPA	183.9	NM	-	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	131.91	45.89
MW-46D	Confined LPA	124.8	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-30D-413	Patuxent	153.1	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-36D	Patuxent	158.7	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

* Well abandoned in August 2019

Table 1

**Historical Groundwater Elevations (2015 through 2021)
Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland**

Well ID	Aquifer/Zone	TOC elevation	5/1/2017		8/31/2017		11/14/2017		2/13/2018		5/31/2018		8/23/2018		11/8/2018	
			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	Depth to Water	Groundwater Elevation
MW-25S *	Unconfined LPA	130.6	14.02	116.58	14.09	116.51	14.6	116.00	14.56	116.04	13.10	117.50	NM	-	11.84	118.76
MW-28S *	Unconfined LPA	150.5	27.4	123.10	27.2	123.30	27.22	123.28	27.48	123.02	27.42	123.08	NM	-	24.33	126.17
MW-45	Unconfined LPA	126.7	13.67	113.05	NM	-	NM	-	NM	-	12.98	113.74	NM	-	NM	-
MW-24D	Confined LPA	129.1	48.35	80.75	48.35	80.75	51.99	77.11	NM	-	50.94	78.16	NM	-	NM	-
MW-25-130	Confined LPA	130.5	53.80	76.70	61.38	69.12	58.46	72.04	58.31	72.19	58.23	72.27	59.53	70.97	58.75	71.75
MW-25-192	Confined LPA	130.5	53.11	77.39	60.36	70.14	58.71	71.79	57.49	73.01	57.40	73.10	58.69	71.81	57.63	72.87
MW-28D	Confined LPA	150.5	82.72	67.78	94.55	55.95	89.03	61.47	67.37	83.13	88.75	61.75	90.98	59.52	88.30	62.20
MW-29D	Confined LPA	131.9	NM	-	NM	-	NM	-	NM	-	64.94	66.98	66.56	65.36	65.03	66.89
MW-30D-273	Confined LPA	153.5	NM	-	NM	-	NM	-	NM	-	98.66	54.88	100.70	52.84	98.14	55.40
MW-31D	Confined LPA	162.5	100.24	62.26	115.67	46.83	107.21	55.29	106.29	56.21	106.80	55.70	109.95	52.55	106.27	56.23
MW-32D	Confined LPA	156.1	NM	-	NM	-	NM	-	NM	-	97.90	58.24	100.65	55.49	98.97	57.17
MW-33D-235	Confined LPA	178.6	117.26	61.34	133.39	45.21	124.55	54.05	123.79	54.81	124.00	54.60	127.52	51.08	125.14	53.46
MW-33D-295	Confined LPA	178.3	117.03	61.27	133.14	45.16	124.36	53.94	123.60	54.70	123.83	54.47	127.34	50.96	125.69	52.61
MW-34D	Confined LPA	183.9	NM	-	NM	-	NM	-	NM	-	132.70	51.21	136.42	47.49	131.76	52.15
MW-35D	Confined LPA	177.8	117.28	60.52	133.55	44.25	125.59	52.21	124.02	53.78	124.27	53.53	128.19	49.61	123.64	54.16
MW-46D	Confined LPA	124.8	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-	NM	-
MW-30D-413	Patuxent	153.1	NM	-	NM	-	NM	-	NM	-	138.10	15.03	143.75	9.38	140.62	12.51
MW-36D	Patuxent	158.7	NM	-	NM	-	NM	-	NM	-	141.75	16.96	146.32	12.39	143.85	14.86

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

* Well abandoned in August 2019

Table 1

Historical Groundwater Elevations (2015 through 2021)
 Offsite Monitoring Wells
 Former Kop-Flex Facility Site
 Hanover, Maryland

Well ID	Aquifer/Zone	TOC elevation	2/19/2019		5/22/2019		8/6/2019		11/20/2019		2/12/2020	
			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	11.75	118.85	NM	-	NM	-	NM	-	NM	-
MW-28S *	Unconfined LPA	150.5	23.30	127.20	NM	-	NM	-	NM	-	NM	-
MW-45	Unconfined LPA	126.7	11.98	114.74	11.75	114.97	NM	-	14.55	112.17	NM	-
MW-24D	Confined LPA	129.1	48.92	80.18	49.67	79.43	52.37	76.73	51.12	77.98	50.10	79.00
MW-25-130	Confined LPA	130.5	54.96	75.54	56.23	74.27	60.79	69.71	59.94	70.56	55.55	74.95
MW-25-192	Confined LPA	130.5	54.20	76.30	55.45	75.05	60.37	70.13	59.02	71.48	54.70	75.80
MW-28D	Confined LPA	150.5	84.78	65.72	86.96	63.54	94.24	56.26	91.37	59.13	85.00	65.50
MW-29D	Confined LPA	131.9	60.64	71.28	62.36	69.56	67.20	64.72	67.10	64.82	61.28	70.64
MW-30D-273	Confined LPA	153.5	93.10	60.44	95.74	57.80	104.75	48.79	101.12	52.42	93.29	60.25
MW-31D	Confined LPA	162.5	102.47	60.03	104.91	57.59	113.35	49.15	110.14	52.36	102.73	59.77
MW-32D	Confined LPA	156.1	93.79	62.35	97.02	59.12	99.43	56.71	101.56	54.58	92.35	63.79
MW-33D-235	Confined LPA	178.6	119.35	59.25	121.72	56.88	132.76	45.84	127.87	50.73	119.72	58.88
MW-33D-295	Confined LPA	178.3	119.10	59.20	NM	NA	131.14	47.16	127.65	50.65	119.54	58.76
MW-34D	Confined LPA	183.9	127.40	56.51	129.93	53.98	141.48	42.43	136.62	47.29	127.75	56.16
MW-35D	Confined LPA	177.8	119.18	58.62	121.65	56.15	127.51	50.29	129.89	47.91	119.68	58.12
MW-46D	Confined LPA	124.8	NM	-	35.47	89.30	38.40	86.37	37.90	86.87	36.13	88.64
MW-30D-413	Patuxent	153.1	130.73	22.40	137.25	15.88	145.27	7.86	143.64	9.49	128.12	25.01
MW-36D	Patuxent	158.7	134.83	23.88	141.30	17.41	147.65	11.06	146.75	11.96	132.11	26.60

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

* Well abandoned in August 2019

Table 1

**Historical Groundwater Elevations (2015 through 2021)
Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland**

Well ID	Aquifer/Zone	TOC elevation	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
MW-25S *	Unconfined LPA	130.6	NM	-	NM	-	NM	-	NM	-
MW-28S *	Unconfined LPA	150.5	NM	-	NM	-	NM	-	NM	-
MW-45	Unconfined LPA	126.7	NM	-	NM	-	12.69	114.03	12.69	114.03
MW-24D	Confined LPA	129.1	48.80	80.30	53.02	76.08	50.01	79.09	49.40	79.70
MW-25-130	Confined LPA	130.5	54.95	75.55	60.50	70.00	56.11	74.39	NM	-
MW-25-192	Confined LPA	130.5	54.23	76.27	59.50	71.00	55.32	75.18	NM	-
MW-28D	Confined LPA	150.5	84.36	66.14	92.87	57.63	86.34	64.16	89.34	61.16
MW-29D	Confined LPA	131.9	60.61	71.31	67.75	64.17	62.15	69.77	64.82	67.10
MW-30D-273	Confined LPA	153.5	92.60	60.94	103.09	50.45	94.95	58.59	99.70	53.84
MW-31D	Confined LPA	162.5	NM	-	113.30	49.20	104.32	58.18	108.09	54.41
MW-32D	Confined LPA	156.1	94.31	61.83	103.76	52.38	95.58	60.56	99.72	56.42
MW-33D-235	Confined LPA	178.6	119.10	59.50	NM	-	121.30	57.30	125.35	53.25
MW-33D-295	Confined LPA	178.3	118.84	59.46	130.21	48.09	121.08	57.22	125.15	53.15
MW-34D	Confined LPA	183.9	127.01	56.90	139.08	44.83	129.41	54.50	133.82	50.09
MW-35D	Confined LPA	177.8	119.06	58.74	129.67	48.13	121.20	56.60	126.19	51.61
MW-46D	Confined LPA	124.8	35.73	89.04	37.72	87.05	35.95	88.82	35.95	88.82
MW-30D-413	Patuxent	153.1	127.25	25.88	142.22	10.91	134.60	18.53	140.69	12.44
MW-36D	Patuxent	158.7	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 2

Offsite Monitoring Well Sample Results
Former Kop-Flex Facility Site
Hanover, Maryland
November and December 2021

Parameters (a)	Groundwater Quality Standards (µg/L) (b)	Well ID: Sampling Date:	CONFINED LOWER PATAPSCO AQUIFER							
			MW-24D 15-Nov-21	MW-25D-130 27-Dec-21	MW-25D-192 27-Dec-21	MW-28D 15-Nov-21	MW-29D 15-Nov-21	MW-30D-273 15-Nov-21	MW-31D 15-Nov-21	MW-32D 15-Nov-21
1,1-Dichloroethane	2.8		142	3.0	6.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5		10.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7		1,300	45.5	26.0	8.1	1.0 U	34.1	1.0 U	1.0 U
1,4-Dioxane	4.6 (c)		475	29.1	21.6	5.1	2.0 U	16.6	2.0 U	2.0 U
1,1,1-Trichloroethane	200		16.1	3.3	3.4	1.0 U	1.0 U	1.4	1.0 U	1.0 U
	Total CVOCs & 1,4-Dioxane	-	1,943.1	80.9	57.2	13.2	---	52.1	---	---

a/ U = not detected above the method detection limit; CVOC = chlorinated volatile organic compound.

Bolded values indicate an exceedence of the Groundwater Quality Standards

All sample concentrations in micrograms per liter (µg/l)

b/ Source:

[http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202021.1%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202021.1%20dated%205-20-08(1).pdf)

c/ Value represents the MDE risk-based action level.

d/ Field duplicate of sample from well MW-25-192.

Table 2

Offsite Monitoring Well Sample Results
 Former Kop-Flex Facility Site
 Hanover, Maryland
 November and December 2021

Parameters (a)	Groundwater Quality Standards (µg/L) (b)	Well ID: Sampling Date:	CONFINED LOWER PATAPSCO AQUIFER					PATUXENT AQUIFER	
			MW-33D-235 15-Nov-21	MW-33D-295 15-Nov-21	MW-34D 15-Nov-21	MW-35D 15-Nov-21	MW-46D 15-Nov-21	MW-30D-413 15-Nov-21	MW-36D 15-Nov-21
1,1-Dichloroethane	2.8		1.0 U	1.0 U	1.0 U	1.0 U	19.9	1.0 U	1.0 U
1,2-Dichloroethane	5		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7		1.0 U	4.2	1.0 U	1.0 U	87	1.0 U	1.0 U
1,4-Dioxane	4.6 (c)		2.0 U	6.1	2.0 U	2.0 U	79.9	2.0 U	2.0 U
1,1,1-Trichloroethane	200		1.0 U	1.0 U	1.0 U	1.0 U	4.8	1.0 U	1.0 U
	Total CVOCs & 1,4-Dioxane		---	10.3	---	---	192.5	---	---

a/ U = not detected above the method detection limit; CVOC = chlorinated volatile organic compound.

Bolded values indicate an exceedence of the Groundwater Quality Standards

All sample concentrations in micrograms per liter (µg/l)

b/ Source:

[http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202021%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202021%20dated%205-20-08(1).pdf)

c/ Value represents the MDE risk-based action level.

d/ Field duplicate of sample from well MW-25-192.

Table 3

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

Well ID		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
Groundwater Quality Standard (µg/L)		2.8 (1)	5	7	70	4.6	5	200	5	5
Sample Date										
Shallow Zone Lower Patapsco Wells (b)										
MW-25 (c)	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 (c)	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
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	1.9	1.0 U	2.3	2.0 U	1.0 U	1.0 U	1.0 U
	6/28/2018	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	12/8/2020	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0 U	2.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Deep Zone Lower Patapsco Wells										
MW-24D	3/22/2016	88.0	15.7	1,780	12.5 U	561	39.4	38.6	12.5 U	12.5 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
	11/14/2017	28.1	3.4	803	2.3	212	11.7	10.5	0.5 J	5.9
	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	151.0	6.3	788	7.2	299	25.0 U	10.9	5.0 U	5.0 U
	11/15/2021	142.0	10.0 U	1300	10.0 U	475	25.0 U	16.1	5.0 U	5.0 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
	12/27/2021	3.0	1.0 U	45.5	1.0 U	29.1	5.0 U	3.3	1.0 U	1.0 U

Table 3

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

Well ID		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
Groundwater Quality Standard (µg/L)		2.8 (1)	5	7	70	4.6	5	200	5	5
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	28.3	1.0 U	22.6	5.0 U	3.2	1.0 U	1.0 U
12/27/2021	6.2	1.0 U	26.0	1.0 U	21.6	5.0 U	3.4	1.0 U	1.0 U	
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	1.0 U	36.9	1.0 U	18.2	5.0 U	1.0 U	1.0 U	1.0 U
	11/15/2021	1.0	1.0 U	34.1	1.0 U	16.6	5.0 U	1.4	1.0 U	1.0 U

Table 3

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

Well ID	Groundwater Quality Standard (µg/L)	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	
		2.8 (1)	5	7	70	4.6	5	200	5	5	
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	
	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-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		
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		

Table 3

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

Well ID		1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	
Groundwater Quality Standard (µg/L)		2.8 (1)	5	7	70	4.6	5	200	5	5	
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	1.0 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-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 U	7.8	1.0 U	1.0 U	
	11/15/2021	19.9	1.0 U	87	1.0 U	79.9	5.0 U	4.8	1.0 U	1.0 U	
	Confined Patuxent Wells 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	
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	

(1) MDE GW Quality Standard changed from 90 µg/L to 2.8 µg/L in October 2018

a/ 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

Dashed line marks change from quarterly to semi-annual sampling frequency at the well.

All sample concentrations in micrograms per liter (µg/l)

NS = well not sampled

b/ Wells screened in this portion of the Lower Patapsco aquifer were removed from the monitoring program after the May 2018 sampling event.

c/ Well decommissioned in August 2019

ENCLOSURE A – LABORATORY ANALYTICAL REPORT FOR OFFSITE
GROUNDWATER MONITORING WELL SAMPLES (NOVEMBER AND
DECEMBER 2021)

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:

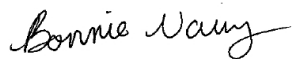
Enclosed are the analytical results for sample(s) received by the laboratory on November 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92572910

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey 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

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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

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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

REPORT OF LABORATORY ANALYSIS

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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

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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

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 08:48	79-34-5	

REPORT OF LABORATORY ANALYSIS

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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

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:06	79-34-5	

REPORT OF LABORATORY ANALYSIS

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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	

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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	

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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								
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	

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 09:43	79-34-5	

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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						
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	

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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						
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	

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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	

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:19	79-34-5	

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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	

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:38	79-34-5	

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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	

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 10:56	79-34-5	

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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	

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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	

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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	

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:32	79-34-5	

REPORT OF LABORATORY ANALYSIS

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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

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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

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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

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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	

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REPORT OF LABORATORY ANALYSIS

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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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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

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

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QUALITY CONTROL DATA

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

Parameter	Units	3461392		3461393		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
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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QUALITY CONTROL DATA

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

QC Batch:	660613	Analysis Method:	EPA 8260D Mod.
QC Batch 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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QUALITY CONTROL DATA

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

QC Batch: 660615	Analysis Method: EPA 8260D Mod.
QC Batch 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		3461573		3461574		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	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

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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. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

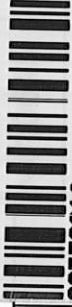
Project: KOP FLEX OFFSITE 31401545.011
Pace Project No.: 92572910

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		

REPORT OF LABORATORY ANALYSIS

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WO#: 92572910



92572910

CHAIN-OF-CUSTODY RECORD

Requested Analyses & Preservatives

WSP USA Office Address
 13530 Dulles Technology Dr Ste 300 Herndon VA

Project Name
 Kop-flex Offsite

Project Location
 Herndon MD

Project Number & Task
 31401545.010

Sampler(s) Name(s)
 Molly Long
 Elliott Martynkiewicz

WSP USA Contact Name
 Eric Johnson

WSP USA Contact E-mail
 eric.johnson@wsp.com

WSP USA Contact Phone
 (703) 709-6500

Sampler(s) Signature(s)

Sampler(s) Signature(s)

Sample Identification	Matrix	Collection Start*		Collection Stop*		Number of Containers	Date	Time	Date	Time	Shipment Method	Tracking Number(s)
		Date	Time	Date	Time							
MW-25D-130	AQ	11/15/11					X		X			
MW-25D-190	AQ	11/15/11					X		X			
MW-28D	AQ	11/15/11	1230			6	X		X			92572910
MW-29D	AQ	11/15/11	1100			6	X		X			
MW-30D-273	AQ	11/15/11	1035			6	X		X			
MW-30D-413	AQ	11/15/11	1045			6	X		X			
MW-31D	AQ	11/15/11	0945			6	X		X			
MW-32D	AQ	11/15/11	1120			6	X		X			
MW-33D-235	AQ	11/15/11	1015			6	X		X			
MW-33D-295	AQ	11/15/11	1005			6	X		X			
MW-34D	AQ	11/15/11	0920			6	X		X			
MW-35D	AQ	11/15/11	0905			6	X		X			
MW-36D	AQ	11/15/11	1240			6	X		X			
Top Blank A						4	X		X			
Relinquished By (Signature) 	Date 11/15/11	Time 1436	Received By (Signature) SKC Facechuc	Date 11/17/11	Time 1015	Shipment Method	Tracking Number(s)					
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)



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

P21

*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-)	WGFW-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	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	4

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.



17233

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

Project #

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	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 Na2SO3 (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	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

MW-460

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.

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:

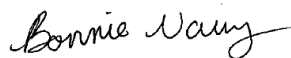
Enclosed are the analytical results for sample(s) received by the laboratory between November 17, 2021 and November 29, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92574598

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey 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

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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

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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

REPORT OF LABORATORY ANALYSIS

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 11:51	79-34-5	

REPORT OF LABORATORY ANALYSIS

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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

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		11/22/21 19:59	79-34-5	

REPORT OF LABORATORY ANALYSIS

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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	

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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

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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

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QUALITY CONTROL DATA

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

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: 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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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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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

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QUALITY CONTROL DATA

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

Parameter	Units	92572910001		3461392		3461393		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
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

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QUALITY CONTROL DATA

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

Parameter	Units	3461392		3461393		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
m&p-Xylene	ug/L	ND	40	40	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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QUALITY CONTROL DATA

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

QC Batch: 661553 Analysis Method: EPA 8260D
QC Batch 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

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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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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

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QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92574598

Parameter	Units	92572910014		MS		MSD		3466252		3466253		Qual	
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec		
1,1,1,2-Tetrachloroethane	ug/L	ND	200	200	200	204	209	102	104	70-135	2	30	
1,1,1-Trichloroethane	ug/L	16.1	200	200	200	183	228	84	106	70-148	22	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	200	200	200	203	252	102	126	70-131	22	30	
1,1,2-Trichloroethane	ug/L	ND	200	200	200	201	201	101	101	70-136	0	30	
1,1-Dichloroethane	ug/L	142	200	200	200	267	416	62	137	70-147	44	30	M1, R1
1,1-Dichloroethene	ug/L	1300	200	200	200	1280	1650	-7	174	70-158	25	30	M1
1,1-Dichloropropene	ug/L	ND	200	200	200	173	212	87	106	70-149	20	30	
1,2,3-Trichlorobenzene	ug/L	ND	200	200	200	183	206	91	103	68-140	12	30	
1,2,3-Trichloropropane	ug/L	ND	200	200	200	201	253	100	126	67-137	23	30	
1,2,4-Trichlorobenzene	ug/L	ND	200	200	200	185	218	93	109	70-139	16	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	200	200	200	190	208	95	104	69-136	9	30	
1,2-Dibromoethane (EDB)	ug/L	ND	200	200	200	203	211	102	105	70-137	4	30	
1,2-Dichlorobenzene	ug/L	ND	200	200	200	193	198	97	99	70-133	2	30	
1,2-Dichloroethane	ug/L	ND	200	200	200	195	208	93	100	67-138	7	30	
1,2-Dichloropropane	ug/L	ND	200	200	200	211	208	106	104	70-138	2	30	
1,3-Dichlorobenzene	ug/L	ND	200	200	200	200	200	100	100	70-133	0	30	
1,3-Dichloropropane	ug/L	ND	200	200	200	206	207	103	104	70-136	1	30	
1,4-Dichlorobenzene	ug/L	ND	200	200	200	206	209	103	104	70-133	1	30	
2,2-Dichloropropane	ug/L	ND	200	200	200	174	252	87	126	52-155	36	30	R1
2-Butanone (MEK)	ug/L	ND	400	400	400	323	366	81	91	61-147	13	30	
2-Chlorotoluene	ug/L	ND	200	200	200	197	207	98	104	70-141	5	30	
2-Hexanone	ug/L	ND	400	400	400	435	425	109	106	67-139	2	30	
4-Chlorotoluene	ug/L	ND	200	200	200	195	208	97	104	70-135	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	400	400	400	394	389	99	97	67-136	1	30	
Acetone	ug/L	ND	400	400	400	340	512	85	128	55-159	40	30	R1
Benzene	ug/L	ND	200	200	200	205	216	103	108	67-150	5	30	
Bromobenzene	ug/L	ND	200	200	200	199	201	99	100	70-134	1	30	
Bromochloromethane	ug/L	ND	200	200	200	164	202	82	101	70-146	20	30	
Bromodichloromethane	ug/L	ND	200	200	200	199	212	99	106	70-138	7	30	
Bromoform	ug/L	ND	200	200	200	193	227	96	114	57-138	16	30	
Bromomethane	ug/L	ND	200	200	200	184	281	92	141	10-200	42	30	R1
Carbon tetrachloride	ug/L	ND	200	200	200	186	242	93	121	70-147	26	30	
Chlorobenzene	ug/L	ND	200	200	200	205	210	103	105	70-137	2	30	
Chloroethane	ug/L	ND	200	200	200	233	305	113	149	51-166	27	30	
Chloroform	ug/L	ND	200	200	200	155	205	78	103	70-144	28	30	
Chloromethane	ug/L	ND	200	200	200	170	212	85	106	24-161	22	30	
cis-1,2-Dichloroethene	ug/L	ND	200	200	200	165	258	79	125	67-148	44	30	R1
cis-1,3-Dichloropropene	ug/L	ND	200	200	200	198	207	99	104	70-142	4	30	
Dibromochloromethane	ug/L	ND	200	200	200	203	211	102	106	68-138	4	30	
Dibromomethane	ug/L	ND	200	200	200	197	215	98	108	70-134	9	30	
Dichlorodifluoromethane	ug/L	ND	200	200	200	184	243	92	121	43-155	27	30	
Diisopropyl ether	ug/L	ND	200	200	200	153	229	77	114	65-146	40	30	R1
Ethylbenzene	ug/L	ND	200	200	200	214	216	107	108	68-143	1	30	
Hexachloro-1,3-butadiene	ug/L	ND	200	200	200	200	231	100	115	62-151	14	30	IH,v1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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

Parameter	Units	3466252		3466253		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
m&p-Xylene	ug/L	ND	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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QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92574598

QC Batch: 662512

Analysis Method: EPA 8260D

QC Batch 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

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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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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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QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92574598

Parameter	Units	92572910015		3471021		3471022		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
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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QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92574598

Parameter	Units	3471021		3471022		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92572910015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
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

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QUALITY CONTROL DATA

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

QC Batch: 660613	Analysis Method: EPA 8260D Mod.
QC Batch 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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QUALITY CONTROL DATA

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

QC Batch: 660958 Analysis Method: EPA 8260D Mod.
QC Batch 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	

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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.

REPORT OF LABORATORY ANALYSIS

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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		

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CHAIN-OF-CUSTODY RECORD

WSP USA Office Address 13530 Dulles Technology Dr Herndon, VA 20171 Project Name: Complex Offset Project Location: Herndon, MD Project Number & Task: 31401545011 Sampler(s) Name(s): Moline Elliott		WSP USA Contact Name: Eric Johnson @wsp.com WSP USA Contact E-mail: Eric.Johnson@wsp.com WSP USA Contact Phone: 703 709 6500 Sampler(s) Signature(s):		No. 10660 Laboratory Name & Location: Face Vc Laboratory Project Manager: Bonnie Viny Requested Turn-Around-Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR Sample Comments: 013 014 015			
Sample Identification	Matrix	Collection Start Date	Collection Start Time	Number of Containers	Requested Analyses & Preservatives	Tracking Number(s)	Custody Seal Number(s)
MN-45	AQ	11/15/21	13:10	6	Vc Baled 14-dioxine Baled+SIM		
MN-24D	AQ	11/15/21	13:25	6			
DUP-11521	AQ	11/15/21	12:00	6			
Relinquished By (Signature):	Date: 11/15/21	Time: 1426	Received By (Signature): SKL Pencil	Date: 11/17/21	Time: 1015	Shipment Method:	Number of Packages:
Relinquished By (Signature):	Date:	Time:	Received By (Signature):	Date:	Time:		

*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 = Waste, B = Bulk, O = Other (detail in comments)

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:

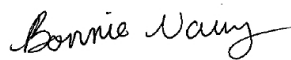
Enclosed are the analytical results for sample(s) received by the laboratory between November 17, 2021 and November 29, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92574601

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey 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

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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

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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

REPORT OF LABORATORY ANALYSIS

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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	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/19/21 12:45	79-34-5	

REPORT OF LABORATORY ANALYSIS

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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

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QUALITY CONTROL DATA

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

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: 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	

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REPORT OF LABORATORY ANALYSIS

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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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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

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QUALITY CONTROL DATA

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

Parameter	Units	3461392		3461393		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92572910001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
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

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QUALITY CONTROL DATA

Project: KOP FLEX OFFSITE 31401545.011

Pace Project No.: 92574601

Parameter	Units	3461392		3461393		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
m&p-Xylene	ug/L	ND	40	40	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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QUALITY CONTROL DATA

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

QC Batch: 660615	Analysis Method: EPA 8260D Mod.
QC Batch 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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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. |

REPORT OF LABORATORY ANALYSIS

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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		

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CHAIN-OF-CUSTODY RECORD

WSP USA Office Address 13530 Dylvo Technology Dr. Herndon, VA 20171		No. 10643		Laboratory Name & Location Pace, NC	
Project Name Kopflex Offsite		WSP USA Contact Name Eric Johnson		Laboratory Project Manager Bonnie Vanej	
Project Location Haver, MD		WSP USA Contact E-mail @wsp.com		Requested Turn-Around-Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR	
Project Number & Task 31401545.011		WSP USA Contact Phone 703 709 6500		Sample Comments 97577A10	
Sampler(s) Name(s) Volney G1011		Sampler(s) Signature(s) 		Number of Containers 6	
Sample Identification MW-46D		Matrix AQ		Collection Date 11/14/21	
		Collection Time 14:30		Date 11/17/21	
		Collection Signature 		Time 1015	
		Date 11/15/21		Date 11/17/21	
		Time 1400		Time 1015	
Relinquished By (Signature) 		Received By (Signature) SKC Rave MVC		Shipment Method	
Relinquished By (Signature) 		Received By (Signature) 		Number of Packages	
Date 11/15/21		Date 11/17/21		Tracking Number(s)	
Time 1400		Time 1015		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)

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:

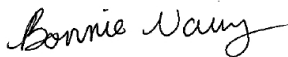
Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FORMER KOP-FLEX FACILITY SITE

Pace Project No.: 92580519

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey 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

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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

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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	

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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	

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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	

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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

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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						
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	

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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	

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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	

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QUALITY CONTROL DATA

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

QC Batch: 669320 Analysis Method: EPA 8260D
QC Batch 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	

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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	

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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

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QUALITY CONTROL DATA

Project: FORMER KOP-FLEX FACILITY SITE

Pace Project No.: 92580519

Parameter	Units	92580519001		3505105		3505106		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
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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QUALITY CONTROL DATA

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

Parameter	Units	3505105		3505106		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92580519001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
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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QUALITY CONTROL DATA

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

QC Batch: 669322 Analysis Method: EPA 8260D
QC Batch 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

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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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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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QUALITY CONTROL DATA

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

Parameter	Units	92580519003		MS		MSD		3505111		3505112		Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	21.0	21.5	105	108	70-135	2	30
1,1,1-Trichloroethane	ug/L	3.4	20	20	20	23.2	23.5	99	100	70-148	1	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	20.9	21.2	105	106	70-131	1	30
1,1,2-Trichloroethane	ug/L	ND	20	20	20	20.2	20.5	101	103	70-136	2	30
1,1-Dichloroethane	ug/L	6.5	20	20	20	25.8	25.6	97	96	70-147	1	30
1,1-Dichloroethene	ug/L	26.4	20	20	20	42.6	43.9	81	87	70-158	3	30
1,1-Dichloropropene	ug/L	ND	20	20	20	19.8	19.9	99	99	70-149	1	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	22.0	22.7	110	113	68-140	3	30
1,2,3-Trichloropropane	ug/L	ND	20	20	20	20.8	21.1	104	105	67-137	1	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	21.1	22.3	106	111	70-139	5	30
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	21.5	22.8	108	114	69-136	6	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	20.5	21.5	102	107	70-137	5	30
1,2-Dichlorobenzene	ug/L	ND	20	20	20	21.3	22.1	107	110	70-133	3	30
1,2-Dichloroethane	ug/L	ND	20	20	20	19.8	19.7	97	97	67-138	1	30
1,2-Dichloropropane	ug/L	ND	20	20	20	20.7	20.9	104	105	70-138	1	30
1,3-Dichlorobenzene	ug/L	ND	20	20	20	21.6	22.7	108	113	70-133	5	30
1,3-Dichloropropane	ug/L	ND	20	20	20	21.0	21.4	105	107	70-136	2	30
1,4-Dichlorobenzene	ug/L	ND	20	20	20	21.7	22.4	108	112	70-133	3	30
2,2-Dichloropropane	ug/L	ND	20	20	20	20.0	19.9	100	100	52-155	0	30
2-Butanone (MEK)	ug/L	ND	40	40	40	40.1	39.5	100	99	61-147	1	30
2-Chlorotoluene	ug/L	ND	20	20	20	22.2	22.7	111	113	70-141	2	30
2-Hexanone	ug/L	ND	40	40	40	43.8	44.5	109	111	67-139	2	30
4-Chlorotoluene	ug/L	ND	20	20	20	21.4	22.0	107	110	70-135	3	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	40	42.9	42.3	107	106	67-136	1	30
Acetone	ug/L	ND	40	40	40	38.2	38.8	95	97	55-159	2	30
Benzene	ug/L	ND	20	20	20	19.9	20.1	100	101	67-150	1	30
Bromobenzene	ug/L	ND	20	20	20	21.5	22.2	108	111	70-134	3	30
Bromochloromethane	ug/L	ND	20	20	20	19.4	19.8	97	99	70-146	2	30
Bromodichloromethane	ug/L	ND	20	20	20	20.3	20.8	102	104	70-138	3	30
Bromoform	ug/L	ND	20	20	20	20.1	20.7	101	104	57-138	3	30
Bromomethane	ug/L	ND	20	20	20	14.9	19.0	75	95	10-200	24	30
Carbon tetrachloride	ug/L	ND	20	20	20	20.8	21.2	104	106	70-147	2	30
Chlorobenzene	ug/L	ND	20	20	20	20.9	21.9	104	109	70-137	5	30
Chloroethane	ug/L	ND	20	20	20	21.9	22.1	110	111	51-166	1	30 v3
Chloroform	ug/L	ND	20	20	20	20.2	20.3	101	101	70-144	0	30
Chloromethane	ug/L	ND	20	20	20	20.6	20.2	103	101	24-161	2	30
cis-1,2-Dichloroethene	ug/L	ND	20	20	20	19.9	19.7	99	99	67-148	1	30
cis-1,3-Dichloropropene	ug/L	ND	20	20	20	19.8	20.4	99	102	70-142	3	30
Dibromochloromethane	ug/L	ND	20	20	20	20.6	21.1	103	106	68-138	3	30
Dibromomethane	ug/L	ND	20	20	20	19.6	20.0	98	100	70-134	2	30
Dichlorodifluoromethane	ug/L	ND	20	20	20	19.6	19.7	98	99	43-155	0	30
Diisopropyl ether	ug/L	ND	20	20	20	18.7	18.6	94	93	65-146	1	30
Ethylbenzene	ug/L	ND	20	20	20	21.3	21.7	107	108	68-143	2	30
Hexachloro-1,3-butadiene	ug/L	ND	20	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

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QUALITY CONTROL DATA

Project: FORMER KOP-FLEX FACILITY SITE

Pace Project No.: 92580519

Parameter	Units	92580519003		3505111		3505112		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
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					

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QUALITY CONTROL DATA

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

QC Batch: 669494 Analysis Method: EPA 8260D Mod.
QC Batch 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		3505596		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MSD Result								
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	

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REPORT OF LABORATORY ANALYSIS

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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.

REPORT OF LABORATORY ANALYSIS

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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		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021
 Page 1 of 2
 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**

Courier: Fed Ex UPS USPS Client
 Commercial 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: 920264 Type of Ice: Wet Blue None

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

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

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>12-30-21</u>	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>JC</u>	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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.

Project #

WO# : 92580519

PM: BV

Due Date: 01/11/22

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

CLIENT: 92-WSP

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	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																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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/hubs/pas-standard-terms.pdf>.

Section A		Section B		Section C	
Required Client Information: Company: WSP Environmental Strategies Address: 13530 Dulles Technology Drive Herndon, VA 20171 Email: eric.johnson@wsp.com Phone: NONE Fax: Requested Due Date:		Required Project Information: Report To: Eric Johnson Copy To: Purchase Order #: 31401545.0103 Project Name: Former Kop-Flex Facility Site - Onsite Project #: 31401545.011		Invoice Information: Attention: Company Name: Address: Pace Quote: 31401545.0103 Pace Project Manager: bonnie.vang@pacelabs.com Pace Profile #: 3610-8	
Matrix Codes: Drinking Water (DW) Water (W) Waste Water (WW) P SL U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MM MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NN NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ		Requested Analysis Filtered (Y/N) Residual Chlorine (Y/N)			

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Received on	TEMP in C	Infect (Y/N)	Samples (Y/N)	Cooler (Y/N)	Sealed (Y/N)	Custody (Y/N)	
			START DATE	END DATE																
1	MW-25D-130	WT G	12/31/11	11:15	WT G	Eric Johnson	12/31/11	13:35	J. Pace	12/30/11	13:30	Y N Y	4	19						
2	MW-250-192	WT G	12/31/11	11:30	WT G	Eric Johnson	12/31/11	11:30	J. Pace	12/30/11	13:30	Y N Y	4	19						
3	100-12222 DUP-12222A	WT G	12/31/11	11:00	WT G	Eric Johnson	12/31/11	11:00	J. Pace	12/30/11	13:30	Y N Y	4	19						
4	Trip Blank - A	WT			WT	Eric Johnson			J. Pace	12/30/11	13:30	Y N Y	4	19						
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				