



VIA ELECTRONIC MAIL

August 6, 2020

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. 15 - 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 investigation and remediation activities conducted in the Second Quarter of 2020 in the offsite portion of the Former Kop-Flex Facility 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 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
Senior Technical Manager
Water & Environment

CC :REJ:rlo
k:\emerson\kop-flex_reports_progress reports\mde reports\2020\03 - 2nd quarter 2020

Encl.

cc: Mr. John Hopkins, U.S. Environmental Protection Agency (EPA), Region III
 Mr. Stephen Clarke, Emerson Electric Co.
 Sheila Harvey, Esquire, Pillsbury Winthrop Shaw Pittman

QUARTERLY STATUS REPORT NO. 15 – OFFSITE AREA
FORMER KOP-FLEX FACILITY SITE
April 2020 through June 2020

Site Name: Former Kop-Flex Facility
Site Address: 7565 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 APRIL 2020 THROUGH JUNE 2020

1.1 RESIDENTIAL WATER SERVICE CONNECTION FOR 1227 OLD CAMP MEADE ROAD

- On April 29, 2020, the Anne Arundel County (AAC) Department of Public Works informed WSP of the completion of the tapping of the public water main on Reece Road and setting of a meter box on the right-of-way adjacent to the 10-foot utility easement on 1229 Old Camp Meade Road. WSP then retained and scheduled a licensed Master Plumber, All American Plumbing, Inc., to complete the service connection to the dwelling at 1227 Old Camp Meade Rd. (As a note, no water samples were collected from the residential well at 1229 Old Camp Meade Road during the 2nd quarter 2020 due to government-imposed work restrictions related by the novel coronavirus pandemic.)
- On June 2, All-American Plumbing installed underground water piping from the meter box to the southeast corner of the house and into the basement. Pursuant to the homeowner's request, the public water line at the point of entry into the dwelling was routed to the water treatment system currently being used in the home. However, AAC informed the plumber they would not be able to install the flow meter in the meter box until later in the week.

On June 4, 2020, All-American Plumbing returned to the property after being informed by AAC the water meter had been successfully installed in the meter box. The plumber then connected the new water line to the whole-house treatment system and disconnected the existing electrical line from the well pump to the pressure tank switch/control box in accordance with applicable AAC Department of Health requirements. After testing the water line, the plumber and WSP confirmed the new water connection was operating in a satisfactory manner. The plumber then removed the pressure holding tank and inside water piping to the pressure tank from the water-supply well. The well water line entering the home was cut and sealed to prevent water from entering the basement in the future.

- On June 10, 2020, a Maryland-licensed well driller from Earth Matters Inc. abandoned the residential well at the 1227 Old Camp Meade Road property in accordance with the requirements in the Code of Maryland Administrative Regulations (COMAR) 26.04.04 – Well Construction. The abandonment activities involved removal of the submersible pump and water line from the well and sealing of the well casing with neat cement grout to a depth of approximately 1 foot below ground surface (bgs). The well casing was cut approximately 1 foot bgs, and the hole backfilled to existing grade with soil/top soil and seeded.

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1.2 SEMI-ANNUAL GROUNDWATER MONITORING

- All offsite deep monitoring wells, except for MW-31D, were sampled on May 12 and 14, 2020, using a disposable passive sampling device (HydraSleeve™) that had been deployed following the previous sampling of each well in November 2019. WSP was not able to access MW-31D on this date to collect a groundwater sample because a vehicle was parked over the well; therefore, WSP returned to the offsite area on June 2, 2020 to collect a sample of this well. No sample was collected from shallow monitoring well MW-45 on the William Scotsman property because a large construction trailer was present over the well, rendering it inaccessible. (WSP will attempt to collect water level and water quality data from well MW-45 during the next semi-annual monitoring event in November 2020.)

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

- As part of the May 2020 monitoring event, WSP also obtained depth to water measurements from the deep offsite monitoring wells. No water level measurement was taken at well MW-45 on the William Scotsman property due to the reason mentioned above. Depth to water measurements for the deep offsite monitoring wells are provided in the table below. 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	48.80	128	118 – 128	122 – 124.5
MW-25D-130	Confined Lower Patapsco	54.95	130	120 – 130	125 – 127.5
MW-25D-192	Confined Lower Patapsco	54.23	192	182 – 192	185 – 187.5
MW-28D	Confined Lower Patapsco	84.36	210	200 – 210	205 – 207.5
MW-29D	Confined Lower Patapsco	60.61	151	141 – 151	146 – 148.5
MW-30D-273	Confined Lower Patapsco	92.60	273	263 – 273	267 – 269.5
MW-30D-413	Patuxent	127.25	413	403 – 413	407 – 409.5
MW-31D	Confined Lower Patapsco	Not Measured	280	270 – 280	275 – 277.5
MW-32D	Confined Lower Patapsco	94.31	236	226 – 236	233 – 235.5
MW-33D-235	Confined Lower Patapsco	119.10	235	225 – 235	230 – 232.5
MW-33D-295	Confined Lower Patapsco	118.84	295	285 – 295	290 – 292.5

QUARTERLY STATUS REPORT NO. 15 – OFFSITE AREA
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WELL ID	HYDROLOGIC UNIT	DEPTH TO WATER (FT BGS)	WELL DEPTH (FT BGS)	WELL SCREEN INTERVAL (FT BGS)	SAMPLE INTERVAL (FT BGS)
MW-34D	Confined Lower Patapsco/Arundel Clay	127.01	385	375 – 385	379 – 381.5
MW-35D	Confined Lower Patapsco	119.06	298	288 – 298	293 – 295.5
MW-36D	Patuxent	131.08	360	350 – 360	357 – 359.5
MW-46D	Confined Lower Patapsco	35.73	90	80 – 90	84 – 86.5

FT BGS = feet below ground surface

- A potentiometric surface contour map for the deep, confined portion of the Lower Patapsco aquifer is shown in Figure 1 using the water level data obtained during the May 2020 sampling activities. However, no water level from MW-31D was used in generating the contours since the measurement was not obtained on the same day that measurements from the other deep offsite monitoring wells. The general direction of groundwater flow in the deep, confined portion of the Lower Patapsco aquifer is to the south-southeast from the former Kop-Flex facility, which is consistent with previous measurements. As indicated by the onsite water level data, the groundwater flow direction in the deep, confined portion of the Lower Patapsco aquifer differs from the direction of flow in the shallow portion of this aquifer.
- The May 2020 analytical results for samples from the offsite monitoring wells are summarized in Table 2. A copy of the certified laboratory analytical report for these samples is 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) detected in the May 2020 samples are shown on Figure 2.

Overall, the analytical data indicates the presence of site-related constituents just over one mile hydraulically downgradient (south) of the former Kop-Flex property. It should be noted that site-related COCs were also detected in the sample from well MW-46D on the Verizon property to the north of the former Kop-Flex facility, with a total COC concentration of 183 micrograms per liter ($\mu\text{g/l}$). This total COC concentration is slightly lower than the concentrations from the November 2019 sampling event (235.1 $\mu\text{g/l}$).

In the offsite area to the south, the sample from monitoring well MW-24D on the adjoining Williams-Scotsman property had the highest concentration of site-related COCs (573 $\mu\text{g/l}$), although this level is significantly lower than that detected in the November 2019 event (1,094 $\mu\text{g/l}$). Further downgradient, a total concentration of site-related COCs of 105 $\mu\text{g/l}$ was detected in the MW-25D-130 sample, which is similar to the concentrations in the sample (107.1 $\mu\text{g/l}$) and duplicate (100.2 $\mu\text{g/l}$) from the deeper well (MW-25D-192) at this location. The concentrations of site-related COCs, particularly 1,1-dichloroethene (DCE) and 1,4-dioxane, in the MW-25D-130 sample have been exhibiting a decreasing trend during the past two years (2018 and 2019) of sampling, although detections in the May sample are similar to the sample collected in November 2019 (Table 3). Comparison of the 2018-2019 results for the MW-25D-192 samples also shows an apparent declining trend in COC concentrations. The concentrations of 1,1-DCE; 1,1-dichloroethane (DCA); and 1,4-dioxane all exceeded their respective comparative groundwater quality criteria in the samples from MW-24D, MW-25D-130, MW-25D-192 and MW-46D.

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The majority of the sampling data for the confined Lower Patapsco monitoring wells located further downgradient indicate non-detect to very low concentrations of site-related COCs (Figure 2). The only exception is the sample from the well screened from 263-273 ft bgs at the MW-30D location, which is screened along the presumed center-line of the VOC plume near the intersection of Old Camp Meade Road and Twin Oaks Road. The groundwater sample from this well (MW-30D-273) had concentrations of 1,1-DCE (42.7 µg/l) and 1,4-dioxane (20.9 µg/l) above their respective groundwater quality criteria for the aquifer. The detected levels for both of these COCs are very similar to previous sampling events. Additionally, the 1,4-dioxane concentration in the MW-33D-295 sample (6.0 µg/l) was above the comparative criterion.

Monitoring well MW-36 in the eastern portion of the Harmans Woods neighborhood and the deeper (413-foot bgs) well at the MW-30D location are screened in the Patuxent aquifer, which underlies the Lower Patapsco. Consistent with previous sampling 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.

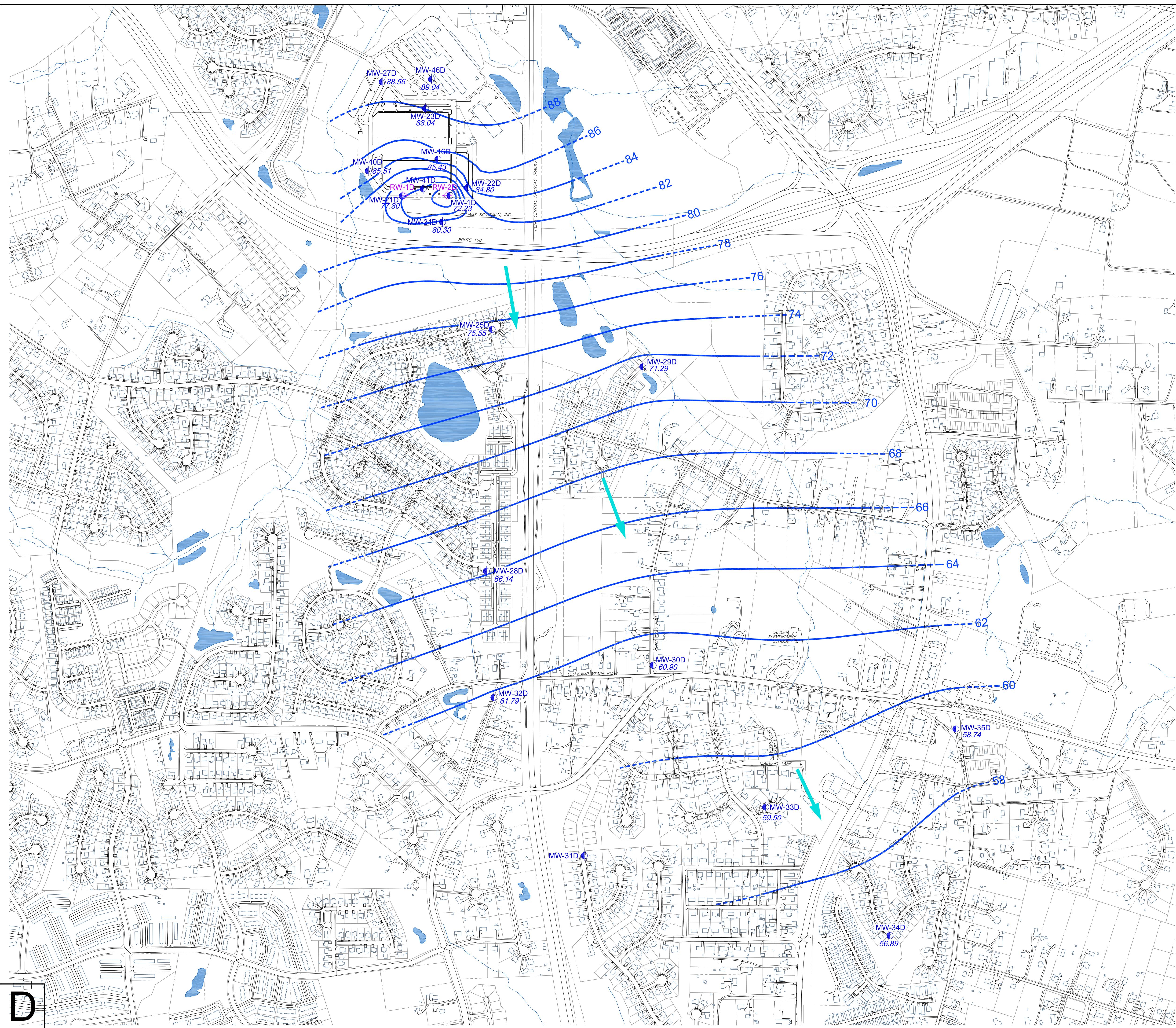
**2.0 PLANNED OFFSITE ACTIVITIES FOR NEXT REPORTING PERIOD
(JULY 2020 THROUGH SEPTEMBER 2020)**

No monitoring or remedial activities are currently planned for the offsite area during the July 2020 through September 2020 reporting period. The next planned activity for the offsite area will be the completion of the semi-annual groundwater monitoring event in November 2020.

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 site.

FIGURES



LEGEND

— PROPERTY LINE

— STREAM

 WATER BODY

 MONITORING WELL

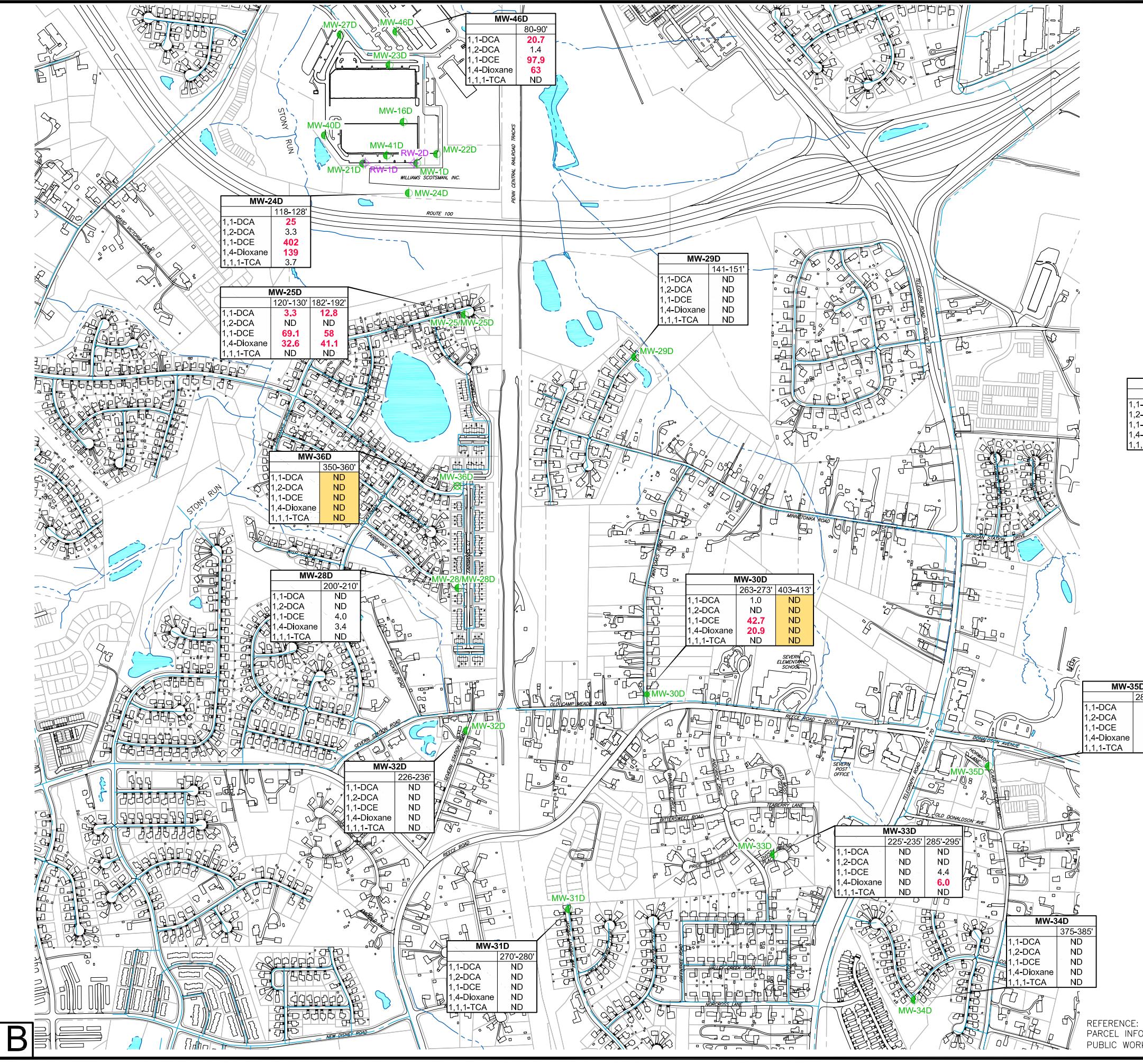
 RECOVERY WELL

72.18 GROUNDWATER SURFACE ELEVATION (FEET MSL)

— GROUNDWATER SURFACE CONTOUR
(DASHED WHERE INFERRED)

 INFERRED GROUNDWATER FLOW

FIGURE 1		Drawing Number 314V1545.011-060		REVISIONS		DESCRIPTION	
SEAL		REV		REV		REV	
		1		1		1	
POTENTIOMETRIC SURFACE CONTOUR MAP CONFINED PORTION OF THE LOWER PATAPSCO AQUIFER MAY 2020		DRAWN BY EGC CHECKED CC APPROVED RJ		DATE 7/17/2020		DATE 7/17/2020	
FORMER KOP-FLEX FACILITY SITE HANOVER, MARYLAND		PROPERTY OF WSP USA INC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS AND SUPPLIERS WITHOUT THE WRITTEN CONSENT OF WSP USA INC.		Chkd: Revised: Appr.: Chkd: Revised: Appr.: Chkd: Revised: Appr.: Chkd: Revised: Appr.: DATE		NOTICE: THIS DRAWING HAS BEEN PREPARED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IT IS A VIOLATION OF STATE LAW FOR ANY PERSONS, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY.	
PREPARED FOR EMERSUB 16 LLC ST. LOUIS, MISSOURI		WSP USA Inc. 13530 DULLES TECHNOLOGY DR, SUITE 300 HERNDON, VA 20171 TEL: +1 703.709.6500					



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FORMER KOP-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 – MAY 2020

WSP USA Inc.
1350 DULLES TECHNOLOGY DR
SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500

Drawn By: EGC

Checked: RG

Approved:

DWG Name: 314V1545.011-046

- LEGEND**
- PROPERTY LINE
 - WATER MAIN
 - STREAM
 - WATER BODY
 - CONFINED LOWER PATAPSCO AQUIFER MONITORING WELL
 - PATUXENT AQUIFER MONITORING WELLS
 - CONFINED LOWER PATAPSCO AQUIFER AND PATUXENT AQUIFER MONITORING WELLS
 - RECOVERY WELL
- WELL IDENTIFICATION**
- SCREENED INTERVAL (FT-BGS)**
- SAMPLE RESULTS IN ppb (RED INDICATES RESULTS ABOVE MDE CLEANUP STANDARDS)**
- CONSTITUENTS**
- DCA DICHLOROETHANE
 - DCE DICHLOROETHENE
 - TCA TRICHLOROETHANE
 - ND NOT DETECTED
- WELL SCREENED IN THE PATUXENT AQUIFER**

0 800 1600
SCALE IN FEET

REFERENCE:
PARCEL INFORMATION OBTAINED FROM ANNE ARUNDEL COUNTY, DEPARTMENT OF
PUBLIC WORKS <http://gis-world2.aacounty.org/DPCounter/countermap.html>

TABLES

Table 1

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

Well ID	Aquifer/Zone	TOC elevation	3/17/2015		6/15/2015		9/21/2015		1/4/2016		3/21/2016		12/7/2016	
			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	-										
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	-										
MW-30D-273	Confined LPA	153.5	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	-										
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	-										
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	-										
MW-30D-413	Patuxent	153.1	NM	-										
MW-36D	Patuxent	158.7	NM	-										

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

* Well abandoned in August 2019

a/ Well was inaccessible at the time water levels were measured in the offsite area.

Table 1

Historical Groundwater Elevation Data - 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	
			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	-
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	-
MW-45	Unconfined LPA	126.7	13.67	113.05	NM	-	NM	-	NM	-	12.98	113.74	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	-
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
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
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
MW-29D	Confined LPA	131.9	NM	-	NM	-	NM	-	NM	-	64.94	66.98	66.56	65.36
MW-30D-273	Confined LPA	153.5	NM	-	NM	-	NM	-	NM	-	98.66	54.88	100.70	52.84
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
MW-32D	Confined LPA	156.1	NM	-	NM	-	NM	-	NM	-	97.90	58.24	100.65	55.49
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
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
MW-34D	Confined LPA	183.9	NM	-	NM	-	NM	-	NM	-	132.70	51.21	136.42	47.49
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
MW-46D	Confined LPA	124.8	NM	-										
MW-30D-413	Patuxent	153.1	NM	-	NM	-	NM	-	NM	-	138.10	15.03	143.75	9.38
MW-36D	Patuxent	158.7	NM	-	NM	-	NM	-	NM	-	141.75	16.96	146.32	12.39

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

* Well abandoned in August 2019

a/ Well was inaccessible at the time water levels were measured

Table 1

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

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

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

* Well abandoned in August 2019

a/ Well was inaccessible at the time water levels were me

Table 1

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

Well ID	Aquifer/Zone	TOC elevation	2/12/2020		5/14/2020	
			Depth to Water	Groundwater Elevation	Depth to Water	Groundwater Elevation
MW-25S *	Unconfined LPA	130.6	NM	-	NM	-
MW-28S *	Unconfined LPA	150.5	NM	-	NM	-
MW-45	Unconfined LPA	126.7	NM	-	NM (a)	0.00
MW-24D	Confined LPA	129.1	50.10	79.00	48.80	80.30
MW-25-130	Confined LPA	130.5	55.55	74.95	54.95	75.55
MW-25-192	Confined LPA	130.5	54.70	75.80	54.23	76.27
MW-28D	Confined LPA	150.5	85.00	65.50	84.36	66.14
MW-29D	Confined LPA	131.9	61.28	70.64	60.61	71.31
MW-30D-273	Confined LPA	153.5	93.29	60.25	92.60	60.94
MW-31D	Confined LPA	162.5	102.73	59.77	NM	-
MW-32D	Confined LPA	156.1	92.35	63.79	94.31	61.83
MW-33D-235	Confined LPA	178.6	119.72	58.88	119.10	59.50
MW-33D-295	Confined LPA	178.3	119.54	58.76	118.84	59.46
MW-34D	Confined LPA	183.9	127.75	56.16	127.01	56.90
MW-35D	Confined LPA	177.8	119.68	58.12	119.06	58.74
MW-46D	Confined LPA	124.8	36.13	88.64	35.73	89.04
MW-30D-413	Patuxent	153.1	128.12	25.01	127.25	25.88
MW-36D	Patuxent	158.7	132.11	26.60	131.08	27.63

Notes:

LPA = Lower Patapsco Aquifer

NM = Not Measured

TOC = Top of Casing

* Well abandoned in August 2019

a/ Well was inaccessible at the time water levels were me

Table 2

Offsite Monitoring Well Sample Results
Former Kop-Flex Facility Site
Hanover, Maryland
November 2019

Parameters (a)	Groundwater Quality Standards ($\mu\text{g/L}$) (b)	Well ID: Sampling Date:	CONFINED LOWER PATAPSCO AQUIFER									
			MW-24D 12-May-20	MW-25D-130 14-May-20	MW-25D-192 14-May-20	DUP 111919(d) 14-May-20	MW-28D 14-May-20	MW-29D 14-May-20	MW-30D-273 14-May-20	MW-31D 2-Jun-20	MW-32D 14-May-20	MW-33D-235 14-May-20
1,1-Dichloroethane	2.8		25.0	3.3	12.8	11.7	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5		3.3	1.0 U	1.0 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		402	69	53.2	49.2	4.0	1.0 U	42.7	1.0 U	1.0 U	1.0 U
1,4-Dioxane	4.6 (c)		139	32.6	41.1	39.3	3.4	2.0 U	20.9	2.0 U	2.0 U	2.0 U
1,1,1-Trichloroethane	200		3.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total CVOCs & 1,4-Dioxane		-	573.0	105.0	107.1	100.2	7.4	---	67.0	---	---	---

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

Bolded values indicate an exceedance of the Groundwater Quality Standards

All sample concentrations in micrograms per liter ($\mu\text{g/l}$)

b/ Source:

[http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%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 2019

Parameters (a)	Groundwater Quality Standards (µg/L) (b)	Well ID: Sampling Date:	CONFINED LOWER PATAPSCO AQUIFER				PATUXENT AQUIFER	
			MW-33D-295 14-May-20	MW-34D 14-May-20	MW-35D 14-May-20	MW-46D 12-May-20	MW-30D-413 14-May-20	MW-36D 14-May-20
1,1-Dichloroethane	2.8		1.0 U	1.0 U	1.0 U	20.7	1.0 U	1.0 U
1,2-Dichloroethane	5		1.0 U	1.0 U	1.0 U	1.4	1.0 U	1.0 U
1,1-Dichloroethene	7		4.4	1.0 U	1.0 U	97.9	1.0 U	1.0 U
1,4-Dioxane	4.6 (c)		6.0	2.0 U	2.0 U	63.0	2.0 U	2.0 U
1,1,1-Trichloroethane	200		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total CVOCs & 1,4-Dioxane			10.4	---	---	183.0	---	---

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%202.1%20dated%205-20-08\(1\).pdf](http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%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 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 ($\mu\text{g/L}$)	2.8 (1)	5	7	70	4.6	5	200	5	5
	Sample Date									
Unconfined 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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
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	1.0
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
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	1.0
	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
	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
Confined 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
	12/8/2016	36.1	5.2	701	5.0 U	192	10.0 U	9.0	5.0 U	5.0
	5/2/2017	40.4	5.6	830	5.0 U	216	10.0 U	10.2	5.0 U	5.0
	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
	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
	5/22/2019	66.2	10.0 U	1,190	10.0 U	359	50.0 U	18	10.0 U	10.0
	11/19/2019	54.5	6.6	868	5.0 U	155	25.0 U	10	5.0 U	6.0
	5/12/2020	25	3.3	402	5.0 U	139	25.0 U	3.7	5.0 U	3.2
MW-25D-130	3/19/2015	38.6	10.8	854	10.0 U	446	200 U	8,930	100 U	100
	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
	9/9/2016	27.9	6.4	661	5.0 U	241	12.0	25.0	5.0 U	5.0
	12/8/2016	6.7	1.5	171	1.0 U	13.6	2.0 U	6.9	1.0 U	1.0
	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
	8/31/2017	7.4	1.7	193	2.0 U	57.9	4.0 U	6.9	2.0 U	2.0
	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
	5/30/2018	5.0	1.4	144	2.0 U	53.9	5.0 U	5.3	1.0 U	1.0
	11/8/2018	4.4	1.1	109	2.0 U	40.2	5.0 U	1.0 U	1.0 U	1.0
	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
	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
	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

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
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
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
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

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-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	
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	
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	
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	

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		Methylene Chloride	1,1,1-Trichloroethane	1,1,2-Trichloroethane	
	Groundwater Quality Standard (µg/L)	2.8 (1)	5	7	70	4.6	5	200	5	5
MW-34D	5/31/2018 8/23/2018 11/8/2018 2/19/2019 5/22/2019 11/20/2019 5/14/2020	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 2.0 U 2.0 U 2.0 U	2.0 U 2.0 U 2.0 U 2.0 U 5.0 U 5.0 U 5.0 U	2.0 U 2.0 U 2.0 U 2.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U
MW-35D	3/18/2015 6/22/2015 9/21/2015 1/6/2016 4/15/2016 7/18/2016 9/6/2016 12/8/2016 2/21/2017 5/2/2017 8/31/2017 11/14/2017 2/14/2018 5/31/2018 11/8/2018 5/22/2019 11/20/2019 5/14/2020	1.0 U 1.0 U	1.0 U 1.0 U	1.0 U 1.0 U	1.0 U 1.0 U	2.0 U 2.0 U	2.0 U 2.0 U	1.0 U 1.0 U	1.0 U 1.0 U	1.0 U 1.0 U
MW-46D	5/30/2018 11/7/2018 5/21/2019 11/19/2019 5/12/2020	13.7 22.1 26.1 23.4 20.7	1.0 U 1.2 1.0 1.4 1.4	29.4 99.6 125 114 98	1.0 U 1.0 U 1.0 U 1.0 U 1.0	73.5 96.7 88.0 96.3 63.0	2.0 U 2.0 U 5.0 U 5.0 U 5.0 U	1.2 7.7 10.2 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U
Confined Patuxent Wells MW-30D-413	5/31/2018 8/23/2018 11/8/2018 2/19/2019 5/22/2019 11/20/2019 5/14/2020	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 2.0 U 2.0 U 2.0 U	2.0 U 2.0 U 2.0 U 2.0 U 2.0 U 5.0 U 5.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U
MW-36D	5/30/2018 8/23/2018 11/8/2018 2/19/2019 5/22/2019 11/20/2019 5/14/2020	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 2.0 U 2.0 U 2.0 U	2.0 U 2.0 U 2.0 U 2.0 U 5.0 U 5.0 U 5.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 U 1.0 U 1.0 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 exceedance 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 (MAY 2020)

May 27, 2020

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

RE: Project: Kop-Flex offsite
Pace Project No.: 92478024

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP
Pam Robertson, WSP USA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: Kop-Flex offsite
Pace Project No.: 92478024

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92478024001	MW-24D	Water	05/12/20 15:55	05/18/20 09:12
92478024002	MW-46D	Water	05/12/20 17:45	05/18/20 09:12
92478024003	MW-29D	Water	05/14/20 13:30	05/18/20 09:12
92478024004	MW-30D-273	Water	05/14/20 13:45	05/18/20 09:12
92478024005	MW-30D-413	Water	05/14/20 13:55	05/18/20 09:12
92478024006	MW-32D	Water	05/14/20 14:20	05/18/20 09:12
92478024007	MW-33D-295	Water	05/14/20 15:05	05/18/20 09:12
92478024008	MW-33D-235	Water	05/14/20 15:15	05/18/20 09:12
92478024009	MW-35D	Water	05/14/20 15:55	05/18/20 09:12
92478024010	MW-34D	Water	05/14/20 16:05	05/18/20 09:12
92478024011	MW-28D	Water	05/14/20 16:30	05/18/20 09:12
92478024012	MW-36D	Water	05/14/20 16:45	05/18/20 09:12
92478024013	Dup051420	Water	05/14/20 09:00	05/18/20 09:12
92478024014	MW-25D-130	Water	05/14/20 17:05	05/18/20 09:12
92478024015	MW-25D-190	Water	05/14/20 17:10	05/18/20 09:12

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SAMPLE ANALYTE COUNT

Project: Kop-Flex offsite
Pace Project No.: 92478024

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92478024001	MW-24D	EPA 8260D EPA 8260D Mod.	CL LMB	63 3	PASI-C
92478024002	MW-46D	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024003	MW-29D	EPA 8260D EPA 8260D Mod.	CL LMB	63 3	PASI-C
92478024004	MW-30D-273	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024005	MW-30D-413	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024006	MW-32D	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024007	MW-33D-295	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024008	MW-33D-235	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024009	MW-35D	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024010	MW-34D	EPA 8260D EPA 8260D Mod.	CL LMB	63 3	PASI-C
92478024011	MW-28D	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024012	MW-36D	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024013	Dup051420	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024014	MW-25D-130	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C
92478024015	MW-25D-190	EPA 8260D EPA 8260D Mod.	SAS LMB	63 3	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-24D	Lab ID: 92478024001	Collected: 05/12/20 15:55	Received: 05/18/20 09:12	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	62.5	2.5		05/26/20 18:09	67-64-1	
Benzene	ND	ug/L	2.5	2.5		05/26/20 18:09	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		05/26/20 18:09	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		05/26/20 18:09	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	2.5		05/26/20 18:09	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		05/26/20 18:09	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		05/26/20 18:09	74-83-9	IH
2-Butanone (MEK)	ND	ug/L	12.5	2.5		05/26/20 18:09	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		05/26/20 18:09	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		05/26/20 18:09	108-90-7	
Chloroethane	ND	ug/L	2.5	2.5		05/26/20 18:09	75-00-3	
Chloroform	ND	ug/L	12.5	2.5		05/26/20 18:09	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		05/26/20 18:09	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		05/26/20 18:09	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		05/26/20 18:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	2.5		05/26/20 18:09	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		05/26/20 18:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		05/26/20 18:09	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		05/26/20 18:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		05/26/20 18:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		05/26/20 18:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		05/26/20 18:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		05/26/20 18:09	75-71-8	
1,1-Dichloroethane	25.0	ug/L	2.5	2.5		05/26/20 18:09	75-34-3	
1,2-Dichloroethane	3.3	ug/L	2.5	2.5		05/26/20 18:09	107-06-2	
1,1-Dichloroethene	402	ug/L	2.5	2.5		05/26/20 18:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/26/20 18:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/26/20 18:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		05/26/20 18:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		05/26/20 18:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		05/26/20 18:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		05/26/20 18:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/26/20 18:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/26/20 18:09	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		05/26/20 18:09	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		05/26/20 18:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.5	2.5		05/26/20 18:09	87-68-3	IH
2-Hexanone	ND	ug/L	12.5	2.5		05/26/20 18:09	591-78-6	v1
p-Isopropyltoluene	ND	ug/L	2.5	2.5		05/26/20 18:09	99-87-6	
Methylene Chloride	ND	ug/L	12.5	2.5		05/26/20 18:09	75-09-2	v1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		05/26/20 18:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		05/26/20 18:09	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		05/26/20 18:09	91-20-3	
Styrene	ND	ug/L	2.5	2.5		05/26/20 18:09	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/26/20 18:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/26/20 18:09	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-24D	Lab ID: 92478024001	Collected: 05/12/20 15:55	Received: 05/18/20 09:12	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	2.5	2.5			05/26/20 18:09	127-18-4
Toluene	ND	ug/L	2.5	2.5			05/26/20 18:09	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5			05/26/20 18:09	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5			05/26/20 18:09	120-82-1
1,1,1-Trichloroethane	3.7	ug/L	2.5	2.5			05/26/20 18:09	71-55-6
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5			05/26/20 18:09	79-00-5
Trichloroethene	3.2	ug/L	2.5	2.5			05/26/20 18:09	79-01-6
Trichlorofluoromethane	ND	ug/L	2.5	2.5			05/26/20 18:09	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	2.5	2.5			05/26/20 18:09	96-18-4
Vinyl acetate	ND	ug/L	5.0	2.5			05/26/20 18:09	108-05-4
Vinyl chloride	ND	ug/L	2.5	2.5			05/26/20 18:09	75-01-4
Xylene (Total)	ND	ug/L	2.5	2.5			05/26/20 18:09	1330-20-7
m&p-Xylene	ND	ug/L	5.0	2.5			05/26/20 18:09	179601-23-1
o-Xylene	ND	ug/L	2.5	2.5			05/26/20 18:09	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	2.5			05/26/20 18:09	460-00-4
1,2-Dichloroethane-d4 (S)	118	%	70-130	2.5			05/26/20 18:09	17060-07-0
Toluene-d8 (S)	102	%	70-130	2.5			05/26/20 18:09	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	139	ug/L	5.0	2.5			05/20/20 18:52	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	115	%	50-150	2.5			05/20/20 18:52	17060-07-0
Toluene-d8 (S)	96	%	50-150	2.5			05/20/20 18:52	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-46D	Lab ID: 92478024002	Collected: 05/12/20 17:45	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D						
		Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/23/20 07:40	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 07:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 07:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 07:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 07:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 07:40	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 07:40	74-83-9	v3
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 07:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 07:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 07:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 07:40	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 07:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 07:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 07:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 07:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 07:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 07:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 07:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 07:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 07:40	75-71-8	
1,1-Dichloroethane	20.7	ug/L	1.0	1		05/23/20 07:40	75-34-3	M1,R1
1,2-Dichloroethane	1.4	ug/L	1.0	1		05/23/20 07:40	107-06-2	
1,1-Dichloroethene	97.9	ug/L	1.0	1		05/23/20 07:40	75-35-4	M1,R1
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 07:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 07:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 07:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 07:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 07:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 07:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 07:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 07:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 07:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 07:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 07:40	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 07:40	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 07:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 07:40	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-46D	Lab ID: 92478024002	Collected: 05/12/20 17:45	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 07:40	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 07:40	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 07:40	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 07:40	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 07:40	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 07:40	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 07:40	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 07:40	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	1			05/23/20 07:40	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 07:40	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 07:40	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 07:40	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 07:40	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 07:40	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1			05/23/20 07:40	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			05/23/20 07:40	17060-07-0
Toluene-d8 (S)	102	%	70-130	1			05/23/20 07:40	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	63.0	ug/L	2.0	1			05/21/20 14:32	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1			05/21/20 14:32	17060-07-0
Toluene-d8 (S)	110	%	50-150	1			05/21/20 14:32	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-29D	Lab ID: 92478024003	Collected: 05/14/20 13:30	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/26/20 16:17	67-64-1	
Benzene	ND	ug/L	1.0	1		05/26/20 16:17	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/26/20 16:17	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/26/20 16:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/26/20 16:17	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/26/20 16:17	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/26/20 16:17	74-83-9	IH
2-Butanone (MEK)	ND	ug/L	5.0	1		05/26/20 16:17	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/26/20 16:17	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/26/20 16:17	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/26/20 16:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/20 16:17	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/26/20 16:17	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/26/20 16:17	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/26/20 16:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/20 16:17	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/26/20 16:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/26/20 16:17	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/26/20 16:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/26/20 16:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/26/20 16:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/26/20 16:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/26/20 16:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/26/20 16:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/26/20 16:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/26/20 16:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/26/20 16:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/26/20 16:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/26/20 16:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/26/20 16:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/26/20 16:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/26/20 16:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/26/20 16:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/26/20 16:17	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/26/20 16:17	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/26/20 16:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/26/20 16:17	87-68-3	IH
2-Hexanone	ND	ug/L	5.0	1		05/26/20 16:17	591-78-6	v1
p-Isopropyltoluene	ND	ug/L	1.0	1		05/26/20 16:17	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/26/20 16:17	75-09-2	v1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/26/20 16:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/26/20 16:17	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/26/20 16:17	91-20-3	
Styrene	ND	ug/L	1.0	1		05/26/20 16:17	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/20 16:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/20 16:17	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-29D	Lab ID: 92478024003	Collected: 05/14/20 13:30	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/26/20 16:17	127-18-4
Toluene	ND	ug/L	1.0	1			05/26/20 16:17	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/26/20 16:17	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/26/20 16:17	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/26/20 16:17	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/26/20 16:17	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/26/20 16:17	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/26/20 16:17	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	1.0	1			05/26/20 16:17	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/26/20 16:17	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/26/20 16:17	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/26/20 16:17	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/26/20 16:17	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/26/20 16:17	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1			05/26/20 16:17	460-00-4
1,2-Dichloroethane-d4 (S)	116	%	70-130	1			05/26/20 16:17	17060-07-0
Toluene-d8 (S)	102	%	70-130	1			05/26/20 16:17	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1			05/20/20 19:31	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1			05/20/20 19:31	17060-07-0
Toluene-d8 (S)	107	%	50-150	1			05/20/20 19:31	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-30D-273	Lab ID: 92478024004	Collected: 05/14/20 13:45	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/23/20 07:22	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 07:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 07:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 07:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 07:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 07:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 07:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 07:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 07:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 07:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 07:22	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 07:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 07:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 07:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 07:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 07:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 07:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 07:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 07:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 07:22	75-71-8	
1,1-Dichloroethane	1.0	ug/L	1.0	1		05/23/20 07:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 07:22	107-06-2	
1,1-Dichloroethene	42.7	ug/L	1.0	1		05/23/20 07:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 07:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 07:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:22	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 07:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 07:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 07:22	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 07:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 07:22	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 07:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 07:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 07:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 07:22	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 07:22	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 07:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 07:22	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-30D-273	Lab ID: 92478024004	Collected: 05/14/20 13:45	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	1.0	1		05/23/20 07:22	127-18-4	
Toluene	ND	ug/L	1.0	1		05/23/20 07:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/23/20 07:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/23/20 07:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/23/20 07:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/23/20 07:22	75-69-4	
1,2,3-Trichloroproppane	ND	ug/L	1.0	1		05/23/20 07:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/23/20 07:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/23/20 07:22	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/23/20 07:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/23/20 07:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/23/20 07:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/23/20 07:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		05/23/20 07:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/23/20 07:22	2037-26-5	
8260D MSV SIM		Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte						
1,4-Dioxane (p-Dioxane)	20.9	ug/L	2.0	1		05/20/20 19:51	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	114	%	50-150	1		05/20/20 19:51	17060-07-0	
Toluene-d8 (S)	111	%	50-150	1		05/20/20 19:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-30D-413	Lab ID: 92478024005	Collected: 05/14/20 13:55	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D						
		Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/23/20 07:04	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 07:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 07:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 07:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 07:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 07:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 07:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 07:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 07:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 07:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 07:04	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 07:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 07:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 07:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 07:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 07:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 07:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 07:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 07:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 07:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 07:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/23/20 07:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 07:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/23/20 07:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 07:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 07:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 07:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 07:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 07:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 07:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 07:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 07:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 07:04	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 07:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 07:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 07:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 07:04	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 07:04	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 07:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 07:04	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-30D-413	Lab ID: 92478024005	Collected: 05/14/20 13:55	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 07:04	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 07:04	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 07:04	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 07:04	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 07:04	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 07:04	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 07:04	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 07:04	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	1			05/23/20 07:04	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 07:04	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 07:04	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 07:04	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 07:04	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 07:04	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			05/23/20 07:04	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			05/23/20 07:04	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			05/23/20 07:04	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1			05/20/20 20:10	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	50-150	1			05/20/20 20:10	17060-07-0
Toluene-d8 (S)	101	%	50-150	1			05/20/20 20:10	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-32D	Lab ID: 92478024006	Collected: 05/14/20 14:20	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/23/20 06:46	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 06:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 06:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 06:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 06:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 06:46	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 06:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 06:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 06:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 06:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 06:46	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 06:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 06:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 06:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 06:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 06:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 06:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 06:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 06:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 06:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/23/20 06:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 06:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 06:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 06:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 06:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 06:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 06:46	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 06:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 06:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 06:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 06:46	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 06:46	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 06:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 06:46	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-32D	Lab ID: 92478024006	Collected: 05/14/20 14:20	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 06:46	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 06:46	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 06:46	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 06:46	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 06:46	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 06:46	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 06:46	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 06:46	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	1.0	1			05/23/20 06:46	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 06:46	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 06:46	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 06:46	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 06:46	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 06:46	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			05/23/20 06:46	460-00-4
1,2-Dichloroethane-d4 (S)	106	%	70-130	1			05/23/20 06:46	17060-07-0
Toluene-d8 (S)	102	%	70-130	1			05/23/20 06:46	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1			05/20/20 20:30	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	1			05/20/20 20:30	17060-07-0
Toluene-d8 (S)	94	%	50-150	1			05/20/20 20:30	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-33D-295	Lab ID: 92478024007	Collected: 05/14/20 15:05	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/24/20 04:13	67-64-1	
Benzene	ND	ug/L	1.0	1		05/24/20 04:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/24/20 04:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/24/20 04:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/24/20 04:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/24/20 04:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/24/20 04:13	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		05/24/20 04:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/24/20 04:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/24/20 04:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/24/20 04:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/24/20 04:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/24/20 04:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/24/20 04:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/24/20 04:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/24/20 04:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/24/20 04:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/24/20 04:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/24/20 04:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/24/20 04:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/24/20 04:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/24/20 04:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/24/20 04:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/24/20 04:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/24/20 04:13	107-06-2	
1,1-Dichloroethene	4.4	ug/L	1.0	1		05/24/20 04:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/24/20 04:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/24/20 04:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/24/20 04:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/24/20 04:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/24/20 04:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/24/20 04:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/24/20 04:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/24/20 04:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/24/20 04:13	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/24/20 04:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/24/20 04:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/24/20 04:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/24/20 04:13	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/24/20 04:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/24/20 04:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/24/20 04:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/24/20 04:13	91-20-3	
Styrene	ND	ug/L	1.0	1		05/24/20 04:13	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/24/20 04:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/24/20 04:13	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-33D-295	Lab ID: 92478024007	Collected: 05/14/20 15:05	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/24/20 04:13	127-18-4
Toluene	ND	ug/L	1.0	1			05/24/20 04:13	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/24/20 04:13	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/24/20 04:13	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/24/20 04:13	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/24/20 04:13	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/24/20 04:13	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/24/20 04:13	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	1.0	1			05/24/20 04:13	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/24/20 04:13	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/24/20 04:13	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/24/20 04:13	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/24/20 04:13	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/24/20 04:13	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1			05/24/20 04:13	460-00-4
1,2-Dichloroethane-d4 (S)	112	%	70-130	1			05/24/20 04:13	17060-07-0
Toluene-d8 (S)	100	%	70-130	1			05/24/20 04:13	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	6.0	ug/L	2.0	1			05/20/20 20:50	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	1			05/20/20 20:50	17060-07-0
Toluene-d8 (S)	106	%	50-150	1			05/20/20 20:50	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-33D-235	Lab ID: 92478024008	Collected: 05/14/20 15:15	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D						
		Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/23/20 06:28	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 06:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 06:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 06:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 06:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 06:28	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 06:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 06:28	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 06:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 06:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 06:28	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 06:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 06:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 06:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 06:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 06:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 06:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 06:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 06:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 06:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/23/20 06:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 06:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:28	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 06:28	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 06:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 06:28	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 06:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 06:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 06:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 06:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 06:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 06:28	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 06:28	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 06:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 06:28	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-33D-235	Lab ID: 92478024008	Collected: 05/14/20 15:15	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 06:28	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 06:28	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 06:28	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 06:28	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 06:28	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 06:28	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 06:28	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 06:28	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	1.0	1			05/23/20 06:28	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 06:28	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 06:28	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 06:28	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 06:28	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 06:28	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			05/23/20 06:28	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			05/23/20 06:28	17060-07-0
Toluene-d8 (S)	99	%	70-130	1			05/23/20 06:28	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1			05/20/20 21:10	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	114	%	50-150	1			05/20/20 21:10	17060-07-0
Toluene-d8 (S)	106	%	50-150	1			05/20/20 21:10	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-35D	Lab ID: 92478024009	Collected: 05/14/20 15:55	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D						
		Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/23/20 06:10	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 06:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 06:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 06:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 06:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 06:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 06:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 06:10	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 06:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 06:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 06:10	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 06:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 06:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 06:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 06:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 06:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 06:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 06:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 06:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 06:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 06:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/23/20 06:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 06:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 06:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 06:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 06:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 06:10	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 06:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 06:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 06:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 06:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 06:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 06:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 06:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 06:10	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 06:10	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 06:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 06:10	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-35D	Lab ID: 92478024009	Collected: 05/14/20 15:55	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 06:10	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 06:10	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 06:10	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 06:10	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 06:10	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 06:10	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 06:10	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 06:10	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	1			05/23/20 06:10	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 06:10	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 06:10	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 06:10	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 06:10	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 06:10	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			05/23/20 06:10	460-00-4
1,2-Dichloroethane-d4 (S)	103	%	70-130	1			05/23/20 06:10	17060-07-0
Toluene-d8 (S)	102	%	70-130	1			05/23/20 06:10	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1			05/20/20 21:30	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	117	%	50-150	1			05/20/20 21:30	17060-07-0
Toluene-d8 (S)	108	%	50-150	1			05/20/20 21:30	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-34D	Lab ID: 92478024010	Collected: 05/14/20 16:05	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/26/20 16:35	67-64-1	
Benzene	ND	ug/L	1.0	1		05/26/20 16:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/26/20 16:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/26/20 16:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/26/20 16:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/26/20 16:35	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/26/20 16:35	74-83-9	IH
2-Butanone (MEK)	ND	ug/L	5.0	1		05/26/20 16:35	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/26/20 16:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/26/20 16:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/26/20 16:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/26/20 16:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/26/20 16:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/26/20 16:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/26/20 16:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/26/20 16:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/26/20 16:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/26/20 16:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/26/20 16:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/26/20 16:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/26/20 16:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/26/20 16:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/26/20 16:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/26/20 16:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/26/20 16:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/26/20 16:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/26/20 16:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/26/20 16:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/26/20 16:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/26/20 16:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/26/20 16:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/26/20 16:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/26/20 16:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/26/20 16:35	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/26/20 16:35	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/26/20 16:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/26/20 16:35	87-68-3	IH
2-Hexanone	ND	ug/L	5.0	1		05/26/20 16:35	591-78-6	v1
p-Isopropyltoluene	ND	ug/L	1.0	1		05/26/20 16:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/26/20 16:35	75-09-2	v1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/26/20 16:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/26/20 16:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/26/20 16:35	91-20-3	
Styrene	ND	ug/L	1.0	1		05/26/20 16:35	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/20 16:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/26/20 16:35	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-34D	Lab ID: 92478024010	Collected: 05/14/20 16:05	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/26/20 16:35	127-18-4
Toluene	ND	ug/L	1.0	1			05/26/20 16:35	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/26/20 16:35	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/26/20 16:35	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/26/20 16:35	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/26/20 16:35	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/26/20 16:35	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/26/20 16:35	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	1			05/26/20 16:35	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/26/20 16:35	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/26/20 16:35	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/26/20 16:35	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/26/20 16:35	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/26/20 16:35	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1			05/26/20 16:35	460-00-4
1,2-Dichloroethane-d4 (S)	120	%	70-130	1			05/26/20 16:35	17060-07-0
Toluene-d8 (S)	100	%	70-130	1			05/26/20 16:35	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1			05/20/20 21:50	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	110	%	50-150	1			05/20/20 21:50	17060-07-0
Toluene-d8 (S)	103	%	50-150	1			05/20/20 21:50	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-28D	Lab ID: 92478024011	Collected: 05/14/20 16:30	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D						
		Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/23/20 05:52	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 05:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 05:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 05:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 05:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 05:52	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 05:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 05:52	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 05:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 05:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 05:52	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 05:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 05:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 05:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 05:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 05:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 05:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 05:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 05:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 05:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/23/20 05:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 05:52	107-06-2	
1,1-Dichloroethene	4.0	ug/L	1.0	1		05/23/20 05:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 05:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 05:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:52	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 05:52	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 05:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 05:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 05:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 05:52	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 05:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 05:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 05:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 05:52	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 05:52	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 05:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 05:52	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-28D	Lab ID: 92478024011	Collected: 05/14/20 16:30	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 05:52	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 05:52	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 05:52	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 05:52	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 05:52	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 05:52	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 05:52	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 05:52	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	1.0	1			05/23/20 05:52	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 05:52	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 05:52	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 05:52	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 05:52	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 05:52	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			05/23/20 05:52	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			05/23/20 05:52	17060-07-0
Toluene-d8 (S)	102	%	70-130	1			05/23/20 05:52	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	3.4	ug/L	2.0	1			05/20/20 22:10	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%	50-150	1			05/20/20 22:10	17060-07-0
Toluene-d8 (S)	108	%	50-150	1			05/20/20 22:10	2037-26-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-36D	Lab ID: 92478024012	Collected: 05/14/20 16:45	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D						
		Pace Analytical Services - Charlotte						
Acetone	ND	ug/L	25.0	1		05/23/20 05:34	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 05:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 05:34	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 05:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 05:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 05:34	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 05:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 05:34	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 05:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 05:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 05:34	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 05:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 05:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 05:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 05:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 05:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 05:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 05:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 05:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 05:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/23/20 05:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 05:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/23/20 05:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 05:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 05:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:34	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 05:34	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 05:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 05:34	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 05:34	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 05:34	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 05:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 05:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 05:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 05:34	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 05:34	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 05:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 05:34	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-36D	Lab ID: 92478024012	Collected: 05/14/20 16:45	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 05:34	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 05:34	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 05:34	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 05:34	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 05:34	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 05:34	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 05:34	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 05:34	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	1			05/23/20 05:34	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 05:34	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 05:34	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 05:34	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 05:34	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 05:34	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			05/23/20 05:34	460-00-4
1,2-Dichloroethane-d4 (S)	104	%	70-130	1			05/23/20 05:34	17060-07-0
Toluene-d8 (S)	102	%	70-130	1			05/23/20 05:34	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1			05/20/20 22:29	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	1			05/20/20 22:29	17060-07-0
Toluene-d8 (S)	112	%	50-150	1			05/20/20 22:29	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: Dup051420	Lab ID: 92478024013	Collected: 05/14/20 09:00	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/23/20 05:16	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 05:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 05:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 05:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 05:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 05:16	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 05:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 05:16	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 05:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 05:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 05:16	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 05:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 05:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 05:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 05:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 05:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 05:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 05:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 05:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 05:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 05:16	75-71-8	
1,1-Dichloroethane	11.7	ug/L	1.0	1		05/23/20 05:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 05:16	107-06-2	
1,1-Dichloroethene	49.2	ug/L	1.0	1		05/23/20 05:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 05:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 05:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 05:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 05:16	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 05:16	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 05:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 05:16	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 05:16	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 05:16	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 05:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 05:16	108-10-1	
Methyl-tert-butyl ether	1.0	ug/L	1.0	1		05/23/20 05:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 05:16	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 05:16	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 05:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 05:16	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: Dup051420	Lab ID: 92478024013	Collected: 05/14/20 09:00	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 05:16	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 05:16	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 05:16	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 05:16	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 05:16	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 05:16	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 05:16	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 05:16	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	1.0	1			05/23/20 05:16	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 05:16	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 05:16	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 05:16	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 05:16	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 05:16	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1			05/23/20 05:16	460-00-4
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			05/23/20 05:16	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			05/23/20 05:16	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	39.3	ug/L	2.0	1			05/20/20 22:49	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	50-150	1			05/20/20 22:49	17060-07-0
Toluene-d8 (S)	103	%	50-150	1			05/20/20 22:49	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-25D-130	Lab ID: 92478024014	Collected: 05/14/20 17:05	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/23/20 04:58	67-64-1	v1
Benzene	ND	ug/L	1.0	1		05/23/20 04:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/23/20 04:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/23/20 04:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/23/20 04:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/23/20 04:58	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/23/20 04:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/23/20 04:58	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/23/20 04:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/23/20 04:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/23/20 04:58	75-00-3	v2
Chloroform	ND	ug/L	5.0	1		05/23/20 04:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/23/20 04:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 04:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/23/20 04:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/23/20 04:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/23/20 04:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/23/20 04:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/23/20 04:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 04:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 04:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/23/20 04:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/23/20 04:58	75-71-8	
1,1-Dichloroethane	3.3	ug/L	1.0	1		05/23/20 04:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/23/20 04:58	107-06-2	
1,1-Dichloroethene	69.1	ug/L	1.0	1		05/23/20 04:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 04:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/23/20 04:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 04:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/23/20 04:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/23/20 04:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/23/20 04:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 04:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/23/20 04:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/23/20 04:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/23/20 04:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/23/20 04:58	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/23/20 04:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/23/20 04:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/23/20 04:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/23/20 04:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/23/20 04:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/23/20 04:58	91-20-3	
Styrene	ND	ug/L	1.0	1		05/23/20 04:58	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 04:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/23/20 04:58	79-34-5	

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-25D-130	Lab ID: 92478024014	Collected: 05/14/20 17:05	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/23/20 04:58	127-18-4
Toluene	ND	ug/L	1.0	1			05/23/20 04:58	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 04:58	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/23/20 04:58	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/23/20 04:58	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/23/20 04:58	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/23/20 04:58	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/23/20 04:58	75-69-4
1,2,3-Trichloroproppane	ND	ug/L	1.0	1			05/23/20 04:58	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/23/20 04:58	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/23/20 04:58	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/23/20 04:58	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/23/20 04:58	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/23/20 04:58	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1			05/23/20 04:58	460-00-4
1,2-Dichloroethane-d4 (S)	101	%	70-130	1			05/23/20 04:58	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			05/23/20 04:58	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	32.6	ug/L	2.0	1			05/20/20 23:09	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	1			05/20/20 23:09	17060-07-0
Toluene-d8 (S)	100	%	50-150	1			05/20/20 23:09	2037-26-5

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-25D-190	Lab ID: 92478024015	Collected: 05/14/20 17:10	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Acetone	ND	ug/L	25.0	1		05/24/20 06:19	67-64-1	
Benzene	ND	ug/L	1.0	1		05/24/20 06:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/24/20 06:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		05/24/20 06:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		05/24/20 06:19	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/24/20 06:19	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/24/20 06:19	74-83-9	v2
2-Butanone (MEK)	ND	ug/L	5.0	1		05/24/20 06:19	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/24/20 06:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/24/20 06:19	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/24/20 06:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/24/20 06:19	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/24/20 06:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/24/20 06:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/24/20 06:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/24/20 06:19	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/24/20 06:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/24/20 06:19	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/24/20 06:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/24/20 06:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/24/20 06:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/24/20 06:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/24/20 06:19	75-71-8	
1,1-Dichloroethane	12.8	ug/L	1.0	1		05/24/20 06:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/24/20 06:19	107-06-2	
1,1-Dichloroethene	58.0	ug/L	1.0	1		05/24/20 06:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/24/20 06:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/24/20 06:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/24/20 06:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/24/20 06:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/24/20 06:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/24/20 06:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/24/20 06:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/24/20 06:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/24/20 06:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/24/20 06:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/24/20 06:19	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/24/20 06:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/24/20 06:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/24/20 06:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/24/20 06:19	108-10-1	
Methyl-tert-butyl ether	1.1	ug/L	1.0	1		05/24/20 06:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/24/20 06:19	91-20-3	
Styrene	ND	ug/L	1.0	1		05/24/20 06:19	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/24/20 06:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/24/20 06:19	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Kop-Flex offsite
Pace Project No.: 92478024

Sample: MW-25D-190	Lab ID: 92478024015	Collected: 05/14/20 17:10	Received: 05/18/20 09:12	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
Tetrachloroethene	ND	ug/L	1.0	1			05/24/20 06:19	127-18-4
Toluene	ND	ug/L	1.0	1			05/24/20 06:19	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			05/24/20 06:19	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			05/24/20 06:19	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			05/24/20 06:19	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			05/24/20 06:19	79-00-5
Trichloroethene	ND	ug/L	1.0	1			05/24/20 06:19	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			05/24/20 06:19	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	1			05/24/20 06:19	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			05/24/20 06:19	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			05/24/20 06:19	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			05/24/20 06:19	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			05/24/20 06:19	179601-23-1
o-Xylene	ND	ug/L	1.0	1			05/24/20 06:19	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1			05/24/20 06:19	460-00-4
1,2-Dichloroethane-d4 (S)	112	%	70-130	1			05/24/20 06:19	17060-07-0
Toluene-d8 (S)	97	%	70-130	1			05/24/20 06:19	2037-26-5
8260D MSV SIM	Analytical Method: EPA 8260D Mod. Pace Analytical Services - Charlotte							
1,4-Dioxane (p-Dioxane)	41.1	ug/L	2.0	1			05/20/20 23:28	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	1			05/20/20 23:28	17060-07-0
Toluene-d8 (S)	100	%	50-150	1			05/20/20 23:28	2037-26-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex offsite

Pace Project No.: 92478024

QC Batch: 542927

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260D MSV Low Level

Laboratory:

Pace Analytical Services - Charlotte

Associated Lab Samples: 92478024007, 92478024015

METHOD BLANK: 2892230

Matrix: Water

Associated Lab Samples: 92478024007, 92478024015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/24/20 00:00	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/20 00:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/20 00:00	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/20 00:00	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/20 00:00	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/20 00:00	
1,1-Dichloropropene	ug/L	ND	1.0	05/24/20 00:00	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/24/20 00:00	IH
1,2,3-Trichloropropane	ug/L	ND	1.0	05/24/20 00:00	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/24/20 00:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/24/20 00:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/24/20 00:00	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/20 00:00	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/20 00:00	
1,2-Dichloropropane	ug/L	ND	1.0	05/24/20 00:00	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/20 00:00	
1,3-Dichloropropane	ug/L	ND	1.0	05/24/20 00:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/20 00:00	
2,2-Dichloropropane	ug/L	ND	1.0	05/24/20 00:00	
2-Butanone (MEK)	ug/L	ND	5.0	05/24/20 00:00	
2-Chlorotoluene	ug/L	ND	1.0	05/24/20 00:00	
2-Hexanone	ug/L	ND	5.0	05/24/20 00:00	
4-Chlorotoluene	ug/L	ND	1.0	05/24/20 00:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/24/20 00:00	
Acetone	ug/L	ND	25.0	05/24/20 00:00	
Benzene	ug/L	ND	1.0	05/24/20 00:00	
Bromobenzene	ug/L	ND	1.0	05/24/20 00:00	
Bromochloromethane	ug/L	ND	1.0	05/24/20 00:00	
Bromodichloromethane	ug/L	ND	1.0	05/24/20 00:00	
Bromoform	ug/L	ND	1.0	05/24/20 00:00	
Bromomethane	ug/L	ND	2.0	05/24/20 00:00	v2
Carbon tetrachloride	ug/L	ND	1.0	05/24/20 00:00	
Chlorobenzene	ug/L	ND	1.0	05/24/20 00:00	
Chloroethane	ug/L	ND	1.0	05/24/20 00:00	
Chloroform	ug/L	ND	5.0	05/24/20 00:00	
Chloromethane	ug/L	ND	1.0	05/24/20 00:00	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/20 00:00	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/24/20 00:00	
Dibromochloromethane	ug/L	ND	1.0	05/24/20 00:00	
Dibromomethane	ug/L	ND	1.0	05/24/20 00:00	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

METHOD BLANK: 2892230 Matrix: Water

Associated Lab Samples: 92478024007, 92478024015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/24/20 00:00	
Diisopropyl ether	ug/L	ND	1.0	05/24/20 00:00	
Ethylbenzene	ug/L	ND	1.0	05/24/20 00:00	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/24/20 00:00	
m&p-Xylene	ug/L	ND	2.0	05/24/20 00:00	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/24/20 00:00	
Methylene Chloride	ug/L	ND	5.0	05/24/20 00:00	
Naphthalene	ug/L	ND	1.0	05/24/20 00:00	
o-Xylene	ug/L	ND	1.0	05/24/20 00:00	
p-Isopropyltoluene	ug/L	ND	1.0	05/24/20 00:00	
Styrene	ug/L	ND	1.0	05/24/20 00:00	
Tetrachloroethene	ug/L	ND	1.0	05/24/20 00:00	
Toluene	ug/L	ND	1.0	05/24/20 00:00	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/24/20 00:00	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/24/20 00:00	
Trichloroethene	ug/L	ND	1.0	05/24/20 00:00	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/20 00:00	
Vinyl acetate	ug/L	ND	2.0	05/24/20 00:00	
Vinyl chloride	ug/L	ND	1.0	05/24/20 00:00	
Xylene (Total)	ug/L	ND	1.0	05/24/20 00:00	
1,2-Dichloroethane-d4 (S)	%	108	70-130	05/24/20 00:00	
4-Bromofluorobenzene (S)	%	99	70-130	05/24/20 00:00	
Toluene-d8 (S)	%	102	70-130	05/24/20 00:00	

LABORATORY CONTROL SAMPLE: 2892231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.5	101	70-130	
1,1,1-Trichloroethane	ug/L	50	54.7	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethene	ug/L	50	55.0	110	70-130	
1,1-Dichloropropene	ug/L	50	52.5	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	60.5	121	70-130 IH	
1,2,3-Trichloropropane	ug/L	50	47.6	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.4	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.0	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	52.4	105	70-130	
1,2-Dichloropropene	ug/L	50	50.5	101	70-130	
1,3-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,3-Dichloropropane	ug/L	50	50.7	101	70-131	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite

Pace Project No.: 92478024

LABORATORY CONTROL SAMPLE: 2892231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.3	99	70-130	
2,2-Dichloropropane	ug/L	50	44.2	88	69-130	
2-Butanone (MEK)	ug/L	100	106	106	64-135	
2-Chlorotoluene	ug/L	50	46.8	94	70-130	
2-Hexanone	ug/L	100	109	109	66-135	
4-Chlorotoluene	ug/L	50	48.7	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-130	
Acetone	ug/L	100	106	106	61-157	
Benzene	ug/L	50	51.4	103	70-130	
Bromobenzene	ug/L	50	46.8	94	70-130	
Bromochloromethane	ug/L	50	50.4	101	70-130	
Bromodichloromethane	ug/L	50	53.9	108	70-130	
Bromoform	ug/L	50	43.8	88	70-130	
Bromomethane	ug/L	50	33.3	67	38-130 v3	
Carbon tetrachloride	ug/L	50	58.2	116	70-130	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	43.6	87	37-142	
Chloroform	ug/L	50	52.8	106	70-130	
Chloromethane	ug/L	50	34.8	70	48-130	
cis-1,2-Dichloroethene	ug/L	50	49.8	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dibromomethane	ug/L	50	52.3	105	70-130	
Dichlorodifluoromethane	ug/L	50	46.5	93	53-134	
Diisopropyl ether	ug/L	50	53.9	108	70-135	
Ethylbenzene	ug/L	50	48.1	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.8	102	68-132	
m&p-Xylene	ug/L	100	95.3	95	70-130	
Methyl-tert-butyl ether	ug/L	50	52.7	105	70-130	
Methylene Chloride	ug/L	50	52.9	106	67-132	
Naphthalene	ug/L	50	59.5	119	70-130	
o-Xylene	ug/L	50	49.0	98	70-131	
p-Isopropyltoluene	ug/L	50	48.1	96	70-130	
Styrene	ug/L	50	52.3	105	70-130	
Tetrachloroethene	ug/L	50	52.0	104	69-130	
Toluene	ug/L	50	48.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.4	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	70-130	
Trichloroethene	ug/L	50	50.5	101	70-130	
Trichlorofluoromethane	ug/L	50	45.7	91	63-130	
Vinyl acetate	ug/L	100	96.7	97	55-143	
Vinyl chloride	ug/L	50	52.3	105	70-131	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

MATRIX SPIKE SAMPLE:	2892233						
Parameter	Units	92478024015	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.5	107	73-134	
1,1,1-Trichloroethane	ug/L	ND	20	34.9	175	82-143 M1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.3	102	70-136	
1,1,2-Trichloroethane	ug/L	ND	20	21.9	109	70-135	
1,1-Dichloroethane	ug/L	12.8	20	36.2	117	70-139	
1,1-Dichloroethene	ug/L	58.0	20	87.1	146	70-154	
1,1-Dichloropropene	ug/L	ND	20	24.0	120	70-149	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.7	113	70-135 IH	
1,2,3-Trichloropropane	ug/L	ND	20	18.5	93	71-137	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.2	111	73-140	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	21.0	105	65-134	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.8	109	70-137	
1,2-Dichlorobenzene	ug/L	ND	20	20.7	104	70-133	
1,2-Dichloroethane	ug/L	ND	20	22.4	108	70-137	
1,2-Dichloropropane	ug/L	ND	20	21.6	108	70-140	
1,3-Dichlorobenzene	ug/L	ND	20	21.0	105	70-135	
1,3-Dichloropropane	ug/L	ND	20	21.3	107	70-143	
1,4-Dichlorobenzene	ug/L	ND	20	20.1	100	70-133	
2,2-Dichloropropane	ug/L	ND	20	24.6	123	61-148	
2-Butanone (MEK)	ug/L	ND	40	48.6	121	60-139	
2-Chlorotoluene	ug/L	ND	20	19.4	97	70-144	
2-Hexanone	ug/L	ND	40	44.2	111	65-138	
4-Chlorotoluene	ug/L	ND	20	21.1	105	70-137	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	44.7	112	65-135	
Acetone	ug/L	ND	40	45.4	114	60-148	
Benzene	ug/L	ND	20	21.7	109	70-151	
Bromobenzene	ug/L	ND	20	20.1	100	70-136	
Bromochloromethane	ug/L	ND	20	22.7	113	70-141	
Bromodichloromethane	ug/L	ND	20	23.6	118	70-138	
Bromoform	ug/L	ND	20	19.4	97	63-130	
Bromomethane	ug/L	ND	20	19.4	97	15-152	
Carbon tetrachloride	ug/L	ND	20	25.4	127	70-143	
Chlorobenzene	ug/L	ND	20	20.4	102	70-138	
Chloroethane	ug/L	ND	20	22.3	111	52-163	
Chloroform	ug/L	ND	20	24.2	121	70-139	
Chloromethane	ug/L	ND	20	19.8	99	41-139	
cis-1,2-Dichloroethene	ug/L	ND	20	22.1	111	70-141	
cis-1,3-Dichloropropene	ug/L	ND	20	22.3	112	70-137	
Dibromochloromethane	ug/L	ND	20	19.8	99	70-134	
Dibromomethane	ug/L	ND	20	21.9	109	70-138	
Dichlorodifluoromethane	ug/L	ND	20	24.7	124	47-155	
Diisopropyl ether	ug/L	ND	20	24.8	124	63-144	
Ethylbenzene	ug/L	ND	20	20.1	101	66-153	
Hexachloro-1,3-butadiene	ug/L	ND	20	20.6	103	65-149	
m&p-Xylene	ug/L	ND	40	40.0	100	69-152	
Methyl-tert-butyl ether	ug/L	1.1	20	24.5	117	54-156	
Methylene Chloride	ug/L	ND	20	23.9	120	42-159	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

MATRIX SPIKE SAMPLE: 2892233

Parameter	Units	92478024015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.2	111	61-148	
o-Xylene	ug/L	ND	20	19.8	99	70-148	
p-Isopropyltoluene	ug/L	ND	20	20.9	104	70-146	
Styrene	ug/L	ND	20	20.8	104	70-135	
Tetrachloroethene	ug/L	ND	20	22.2	111	59-143	
Toluene	ug/L	ND	20	21.0	105	59-148	
trans-1,2-Dichloroethene	ug/L	ND	20	23.2	116	70-146	
trans-1,3-Dichloropropene	ug/L	ND	20	22.3	112	70-135	
Trichloroethene	ug/L	ND	20	22.5	113	70-147	
Trichlorofluoromethane	ug/L	ND	20	25.0	125	70-148	
Vinyl acetate	ug/L	ND	40	44.8	112	49-151	
Vinyl chloride	ug/L	ND	20	25.2	126	70-156	
Xylene (Total)	ug/L	ND	60	59.8	100	63-158	
1,2-Dichloroethane-d4 (S)	%				111	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2892232

Parameter	Units	92478032010 Result	Dup Result	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	30	
1,1,1-Trichloroethane	ug/L	ND	ND	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	30	
1,1,2-Trichloroethane	ug/L	ND	ND	30	
1,1-Dichloroethane	ug/L	ND	ND	30	
1,1-Dichloroethene	ug/L	ND	ND	30	
1,1-Dichloropropene	ug/L	ND	ND	30	
1,2,3-Trichlorobenzene	ug/L	ND	ND	30 IH	
1,2,3-Trichloropropane	ug/L	ND	ND	30	
1,2,4-Trichlorobenzene	ug/L	ND	ND	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND	30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND	30	
1,2-Dichlorobenzene	ug/L	ND	ND	30	
1,2-Dichloroethane	ug/L	ND	ND	30	
1,2-Dichloropropane	ug/L	ND	ND	30	
1,3-Dichlorobenzene	ug/L	ND	ND	30	
1,3-Dichloropropane	ug/L	ND	ND	30	
1,4-Dichlorobenzene	ug/L	ND	ND	30	
2,2-Dichloropropane	ug/L	ND	ND	30	
2-Butanone (MEK)	ug/L	ND	ND	30	
2-Chlorotoluene	ug/L	ND	ND	30	
2-Hexanone	ug/L	ND	ND	30	
4-Chlorotoluene	ug/L	ND	ND	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND	30	
Acetone	ug/L	ND	ND	30	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

SAMPLE DUPLICATE: 2892232

Parameter	Units	92478032010 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	v2
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	118	115			
4-Bromofluorobenzene (S)	%	99	95			
Toluene-d8 (S)	%	100	101			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex offsite

Pace Project No.: 92478024

QC Batch: 542931 Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92478024002, 92478024004, 92478024005, 92478024006, 92478024008, 92478024009, 92478024011,
92478024012, 92478024013, 92478024014

METHOD BLANK: 2892263

Matrix: Water

Associated Lab Samples: 92478024002, 92478024004, 92478024005, 92478024006, 92478024008, 92478024009, 92478024011,
92478024012, 92478024013, 92478024014

Parameter	Units	Result	Blank	Reporting	Qualifiers
			Limit	Analyzed	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/22/20 22:41	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/22/20 22:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/22/20 22:41	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/22/20 22:41	
1,1-Dichloroethane	ug/L	ND	1.0	05/22/20 22:41	
1,1-Dichloroethene	ug/L	ND	1.0	05/22/20 22:41	
1,1-Dichloropropene	ug/L	ND	1.0	05/22/20 22:41	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/22/20 22:41	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/22/20 22:41	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/22/20 22:41	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/22/20 22:41	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/22/20 22:41	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/22/20 22:41	
1,2-Dichloroethane	ug/L	ND	1.0	05/22/20 22:41	
1,2-Dichloropropane	ug/L	ND	1.0	05/22/20 22:41	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/22/20 22:41	
1,3-Dichloropropane	ug/L	ND	1.0	05/22/20 22:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/22/20 22:41	
2,2-Dichloropropane	ug/L	ND	1.0	05/22/20 22:41	
2-Butanone (MEK)	ug/L	ND	5.0	05/22/20 22:41	
2-Chlorotoluene	ug/L	ND	1.0	05/22/20 22:41	
2-Hexanone	ug/L	ND	5.0	05/22/20 22:41	
4-Chlorotoluene	ug/L	ND	1.0	05/22/20 22:41	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/22/20 22:41	
Acetone	ug/L	ND	25.0	05/22/20 22:41	v1
Benzene	ug/L	ND	1.0	05/22/20 22:41	
Bromobenzene	ug/L	ND	1.0	05/22/20 22:41	
Bromochloromethane	ug/L	ND	1.0	05/22/20 22:41	
Bromodichloromethane	ug/L	ND	1.0	05/22/20 22:41	
Bromoform	ug/L	ND	1.0	05/22/20 22:41	
Bromomethane	ug/L	ND	2.0	05/22/20 22:41	
Carbon tetrachloride	ug/L	ND	1.0	05/22/20 22:41	
Chlorobenzene	ug/L	ND	1.0	05/22/20 22:41	
Chloroethane	ug/L	ND	1.0	05/22/20 22:41	v2
Chloroform	ug/L	ND	5.0	05/22/20 22:41	
Chloromethane	ug/L	ND	1.0	05/22/20 22:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/22/20 22:41	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/22/20 22:41	
Dibromochloromethane	ug/L	ND	1.0	05/22/20 22:41	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

METHOD BLANK: 2892263 Matrix: Water
Associated Lab Samples: 92478024002, 92478024004, 92478024005, 92478024006, 92478024008, 92478024009, 92478024011,
92478024012, 92478024013, 92478024014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/22/20 22:41	
Dichlorodifluoromethane	ug/L	ND	1.0	05/22/20 22:41	
Diisopropyl ether	ug/L	ND	1.0	05/22/20 22:41	
Ethylbenzene	ug/L	ND	1.0	05/22/20 22:41	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/22/20 22:41	
m&p-Xylene	ug/L	ND	2.0	05/22/20 22:41	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/22/20 22:41	
Methylene Chloride	ug/L	ND	5.0	05/22/20 22:41	
Naphthalene	ug/L	ND	1.0	05/22/20 22:41	
o-Xylene	ug/L	ND	1.0	05/22/20 22:41	
p-Isopropyltoluene	ug/L	ND	1.0	05/22/20 22:41	
Styrene	ug/L	ND	1.0	05/22/20 22:41	
Tetrachloroethene	ug/L	ND	1.0	05/22/20 22:41	
Toluene	ug/L	ND	1.0	05/22/20 22:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/22/20 22:41	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/22/20 22:41	
Trichloroethene	ug/L	ND	1.0	05/22/20 22:41	
Trichlorofluoromethane	ug/L	ND	1.0	05/22/20 22:41	
Vinyl acetate	ug/L	ND	2.0	05/22/20 22:41	
Vinyl chloride	ug/L	ND	1.0	05/22/20 22:41	
Xylene (Total)	ug/L	ND	1.0	05/22/20 22:41	
1,2-Dichloroethane-d4 (S)	%	102	70-130	05/22/20 22:41	
4-Bromofluorobenzene (S)	%	97	70-130	05/22/20 22:41	
Toluene-d8 (S)	%	102	70-130	05/22/20 22:41	

LABORATORY CONTROL SAMPLE: 2892264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.7	107	70-130	
1,1,1-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	104	70-130	
1,1,2-Trichloroethane	ug/L	50	52.4	105	70-130	
1,1-Dichloroethane	ug/L	50	51.4	103	70-130	
1,1-Dichloroethene	ug/L	50	53.3	107	70-130	
1,1-Dichloropropene	ug/L	50	53.2	106	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.8	106	70-130	
1,2,3-Trichloropropane	ug/L	50	51.9	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.4	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.3	113	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.9	110	70-130	
1,2-Dichlorobenzene	ug/L	50	54.1	108	70-130	
1,2-Dichloroethane	ug/L	50	51.9	104	70-130	
1,2-Dichloropropane	ug/L	50	52.9	106	70-130	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite

Pace Project No.: 92478024

LABORATORY CONTROL SAMPLE: 2892264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.8	108	70-130	
1,3-Dichloropropane	ug/L	50	53.5	107	70-131	
1,4-Dichlorobenzene	ug/L	50	54.1	108	70-130	
2,2-Dichloropropane	ug/L	50	54.7	109	69-130	
2-Butanone (MEK)	ug/L	100	109	109	64-135	
2-Chlorotoluene	ug/L	50	52.0	104	70-130	
2-Hexanone	ug/L	100	106	106	66-135	
4-Chlorotoluene	ug/L	50	52.9	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-130	
Acetone	ug/L	100	120	120	61-157 v1	
Benzene	ug/L	50	52.4	105	70-130	
Bromobenzene	ug/L	50	53.2	106	70-130	
Bromochloromethane	ug/L	50	57.0	114	70-130	
Bromodichloromethane	ug/L	50	54.0	108	70-130	
Bromoform	ug/L	50	55.2	110	70-130	
Bromomethane	ug/L	50	49.5	99	38-130	
Carbon tetrachloride	ug/L	50	53.8	108	70-130	
Chlorobenzene	ug/L	50	54.6	109	70-130	
Chloroethane	ug/L	50	37.1	74	37-142 v3	
Chloroform	ug/L	50	50.1	100	70-130	
Chloromethane	ug/L	50	42.6	85	48-130	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Dibromochloromethane	ug/L	50	55.0	110	70-130	
Dibromomethane	ug/L	50	53.9	108	70-130	
Dichlorodifluoromethane	ug/L	50	48.6	97	53-134	
Diisopropyl ether	ug/L	50	53.1	106	70-135	
Ethylbenzene	ug/L	50	50.5	101	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.2	102	68-132	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	53.4	107	70-130	
Methylene Chloride	ug/L	50	52.2	104	67-132	
Naphthalene	ug/L	50	52.2	104	70-130	
o-Xylene	ug/L	50	52.1	104	70-131	
p-Isopropyltoluene	ug/L	50	54.2	108	70-130	
Styrene	ug/L	50	56.1	112	70-130	
Tetrachloroethene	ug/L	50	51.9	104	69-130	
Toluene	ug/L	50	49.9	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	70-130	
Trichloroethene	ug/L	50	54.8	110	70-130	
Trichlorofluoromethane	ug/L	50	47.1	94	63-130	
Vinyl acetate	ug/L	100	111	111	55-143	
Vinyl chloride	ug/L	50	56.7	113	70-131	
Xylene (Total)	ug/L	150	154	103	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex offsite

Pace Project No.: 92478024

LABORATORY CONTROL SAMPLE: 2892264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2892247 2892248

Parameter	Units	92478024002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.2	20.4	101	102	73-134	1	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	29.8	24.3	149	121	82-143	20	30	M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.8	19.7	99	99	70-136	0	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.0	19.9	100	100	70-135	0	30	
1,1-Dichloroethane	ug/L	20.7	20	20	44.3	30.6	118	50	70-139	36	30	M1,R1
1,1-Dichloroethene	ug/L	97.9	20	20	136	71.7	192	-131	70-154	62	30	M1,R1
1,1-Dichloropropene	ug/L	ND	20	20	21.0	21.3	105	106	70-149	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.9	18.9	95	94	70-135	0	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.6	19.5	98	98	71-137	0	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.7	19.0	94	95	73-140	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.2	20.9	106	105	65-134	1	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.9	20.5	104	103	70-137	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.4	19.7	97	99	70-133	2	30	
1,2-Dichloroethane	ug/L	1.4	20	20	20.9	20.5	97	95	70-137	2	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.9	20.1	99	100	70-140	1	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.2	19.7	96	99	70-135	3	30	
1,3-Dichloropropane	ug/L	ND	20	20	19.9	20.5	99	103	70-143	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.2	19.8	96	99	70-133	3	30	
2,2-Dichloropropane	ug/L	ND	20	20	22.1	22.1	111	110	61-148	0	30	
2-Butanone (MEK)	ug/L	ND	40	40	44.9	43.8	112	110	60-139	2	30	
2-Chlorotoluene	ug/L	ND	20	20	19.3	19.6	97	98	70-144	1	30	
2-Hexanone	ug/L	ND	40	40	43.9	43.1	110	108	65-138	2	30	
4-Chlorotoluene	ug/L	ND	20	20	19.3	19.7	97	99	70-137	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	43.4	42.8	109	107	65-135	2	30	
Acetone	ug/L	ND	40	40	43.8	43.8	109	109	60-148	0	30	
Benzene	ug/L	ND	20	20	20.4	19.9	102	100	70-151	2	30	
Bromobenzene	ug/L	ND	20	20	19.7	20.3	99	101	70-136	3	30	
Bromochloromethane	ug/L	ND	20	20	20.6	21.0	103	105	70-141	2	30	
Bromodichloromethane	ug/L	ND	20	20	20.8	20.6	104	103	70-138	1	30	
Bromoform	ug/L	ND	20	20	19.8	19.7	99	99	63-130	0	30	
Bromomethane	ug/L	ND	20	20	23.5	24.3	117	122	15-152	4	30	v3
Carbon tetrachloride	ug/L	ND	20	20	22.0	21.3	110	106	70-143	4	30	
Chlorobenzene	ug/L	ND	20	20	20.4	20.6	102	103	70-138	1	30	
Chloroethane	ug/L	ND	20	20	20.3	19.4	101	97	52-163	4	30	
Chloroform	ug/L	ND	20	20	19.7	19.9	97	98	70-139	1	30	
Chloromethane	ug/L	ND	20	20	18.4	18.5	92	92	41-139	0	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.7	101	103	70-141	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.4	20.4	102	102	70-137	0	30	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2892247 2892248

Parameter	Units	MS		MSD		MS Result	MSD % Rec	MSD % Rec	% Rec Limits	Max	
		92478024002	Spike Conc.	Spike Conc.	MS Result					RPD	RPD
Dibromochloromethane	ug/L	ND	20	20	20.3	20.6	102	103	70-134	2	30
Dibromomethane	ug/L	ND	20	20	19.9	20.1	99	100	70-138	1	30
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	20.3	99	101	47-155	2	30
Diisopropyl ether	ug/L	ND	20	20	21.0	21.1	105	105	63-144	0	30
Ethylbenzene	ug/L	ND	20	20	19.1	19.3	96	96	66-153	1	30
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.0	19.8	100	99	65-149	1	30
m&p-Xylene	ug/L	ND	40	40	38.3	38.7	96	97	69-152	1	30
Methyl-tert-butyl ether	ug/L	ND	20	20	21.2	21.1	106	105	54-156	1	30
Methylene Chloride	ug/L	ND	20	20	21.3	21.8	107	109	42-159	2	30
Naphthalene	ug/L	ND	20	20	18.8	18.4	94	92	61-148	2	30
o-Xylene	ug/L	ND	20	20	19.5	19.6	98	98	70-148	0	30
p-Isopropyltoluene	ug/L	ND	20	20	20.2	20.8	101	104	70-146	3	30
Styrene	ug/L	ND	20	20	19.8	20.0	99	100	70-135	1	30
Tetrachloroethene	ug/L	ND	20	20	20.2	19.9	101	100	59-143	1	30
Toluene	ug/L	ND	20	20	19.6	19.0	98	95	59-148	3	30
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.4	21.1	102	106	70-146	3	30
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.4	19.9	102	99	70-135	2	30
Trichloroethene	ug/L	ND	20	20	22.0	21.2	110	106	70-147	4	30
Trichlorofluoromethane	ug/L	ND	20	20	20.4	20.8	102	104	70-148	2	30
Vinyl acetate	ug/L	ND	40	40	43.6	43.2	109	108	49-151	1	30
Vinyl chloride	ug/L	ND	20	20	23.1	23.3	115	116	70-156	1	30
Xylene (Total)	ug/L	ND	60	60	57.9	58.4	96	97	63-158	1	30
1,2-Dichloroethane-d4 (S)	%						98	103	70-130		
4-Bromofluorobenzene (S)	%						99	98	70-130		
Toluene-d8 (S)	%						100	98	70-130		

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

QC Batch: 543382 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Associated Lab Samples: 92478024001, 92478024003, 92478024010 Laboratory: Pace Analytical Services - Charlotte

METHOD BLANK: 2894165 Matrix: Water

Associated Lab Samples:	92478024001, 92478024003, 92478024010			
Parameter	Units	Blank	Reporting	
		Result	Limit	Analyzed Qualifiers

1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/26/20 12:50
1,1,1-Trichloroethane	ug/L	ND	1.0	05/26/20 12:50
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/26/20 12:50
1,1,2-Trichloroethane	ug/L	ND	1.0	05/26/20 12:50
1,1-Dichloroethane	ug/L	ND	1.0	05/26/20 12:50
1,1-Dichloroethene	ug/L	ND	1.0	05/26/20 12:50
1,1-Dichloropropene	ug/L	ND	1.0	05/26/20 12:50
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/26/20 12:50
1,2,3-Trichloropropane	ug/L	ND	1.0	05/26/20 12:50
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/26/20 12:50
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/26/20 12:50
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/26/20 12:50
1,2-Dichlorobenzene	ug/L	ND	1.0	05/26/20 12:50
1,2-Dichloroethane	ug/L	ND	1.0	05/26/20 12:50
1,2-Dichloropropane	ug/L	ND	1.0	05/26/20 12:50
1,3-Dichlorobenzene	ug/L	ND	1.0	05/26/20 12:50
1,3-Dichloropropane	ug/L	ND	1.0	05/26/20 12:50
1,4-Dichlorobenzene	ug/L	ND	1.0	05/26/20 12:50
2,2-Dichloropropane	ug/L	ND	1.0	05/26/20 12:50
2-Butanone (MEK)	ug/L	ND	5.0	05/26/20 12:50
2-Chlorotoluene	ug/L	ND	1.0	05/26/20 12:50
2-Hexanone	ug/L	ND	5.0	05/26/20 12:50
4-Chlorotoluene	ug/L	ND	1.0	05/26/20 12:50
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/26/20 12:50
Acetone	ug/L	ND	25.0	05/26/20 12:50
Benzene	ug/L	ND	1.0	05/26/20 12:50
Bromobenzene	ug/L	ND	1.0	05/26/20 12:50
Bromochloromethane	ug/L	ND	1.0	05/26/20 12:50
Bromodichloromethane	ug/L	ND	1.0	05/26/20 12:50
Bromoform	ug/L	ND	1.0	05/26/20 12:50
Bromomethane	ug/L	ND	2.0	05/26/20 12:50
Carbon tetrachloride	ug/L	ND	1.0	05/26/20 12:50
Chlorobenzene	ug/L	ND	1.0	05/26/20 12:50
Chloroethane	ug/L	ND	1.0	05/26/20 12:50
Chloroform	ug/L	ND	5.0	05/26/20 12:50
Chloromethane	ug/L	ND	1.0	05/26/20 12:50
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/26/20 12:50
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/26/20 12:50
Dibromochloromethane	ug/L	ND	1.0	05/26/20 12:50
Dibromomethane	ug/L	ND	1.0	05/26/20 12:50

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

METHOD BLANK: 2894165 Matrix: Water

Associated Lab Samples: 92478024001, 92478024003, 92478024010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/26/20 12:50	
Diisopropyl ether	ug/L	ND	1.0	05/26/20 12:50	
Ethylbenzene	ug/L	ND	1.0	05/26/20 12:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/26/20 12:50	IH
m&p-Xylene	ug/L	ND	2.0	05/26/20 12:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/26/20 12:50	
Methylene Chloride	ug/L	ND	5.0	05/26/20 12:50	v1
Naphthalene	ug/L	ND	1.0	05/26/20 12:50	
o-Xylene	ug/L	ND	1.0	05/26/20 12:50	
p-Isopropyltoluene	ug/L	ND	1.0	05/26/20 12:50	
Styrene	ug/L	ND	1.0	05/26/20 12:50	
Tetrachloroethene	ug/L	ND	1.0	05/26/20 12:50	
Toluene	ug/L	ND	1.0	05/26/20 12:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/26/20 12:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/26/20 12:50	
Trichloroethene	ug/L	ND	1.0	05/26/20 12:50	
Trichlorofluoromethane	ug/L	ND	1.0	05/26/20 12:50	
Vinyl acetate	ug/L	ND	2.0	05/26/20 12:50	v1
Vinyl chloride	ug/L	ND	1.0	05/26/20 12:50	
Xylene (Total)	ug/L	ND	1.0	05/26/20 12:50	
1,2-Dichloroethane-d4 (S)	%	115	70-130	05/26/20 12:50	
4-Bromofluorobenzene (S)	%	100	70-130	05/26/20 12:50	
Toluene-d8 (S)	%	98	70-130	05/26/20 12:50	

LABORATORY CONTROL SAMPLE: 2894166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.2	108	70-130	
1,1,1-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.0	106	70-130	
1,1,2-Trichloroethane	ug/L	50	47.6	95	70-130	
1,1-Dichloroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethene	ug/L	50	56.0	112	70-130	
1,1-Dichloropropene	ug/L	50	50.5	101	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	70-130	
1,2,3-Trichloropropane	ug/L	50	51.5	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.4	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.4	89	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.1	108	70-130	
1,2-Dichlorobenzene	ug/L	50	55.5	111	70-130	
1,2-Dichloroethane	ug/L	50	52.3	105	70-130	
1,2-Dichloropropene	ug/L	50	53.1	106	70-130	
1,3-Dichlorobenzene	ug/L	50	55.7	111	70-130	
1,3-Dichloropropane	ug/L	50	56.2	112	70-131	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite

Pace Project No.: 92478024

LABORATORY CONTROL SAMPLE: 2894166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	53.8	108	70-130	
2,2-Dichloropropane	ug/L	50	48.4	97	69-130	
2-Butanone (MEK)	ug/L	100	112	112	64-135	
2-Chlorotoluene	ug/L	50	54.3	109	70-130	
2-Hexanone	ug/L	100	123	123	66-135 v1	
4-Chlorotoluene	ug/L	50	54.8	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	70-130	
Acetone	ug/L	100	115	115	61-157	
Benzene	ug/L	50	52.4	105	70-130	
Bromobenzene	ug/L	50	54.5	109	70-130	
Bromochloromethane	ug/L	50	45.8	92	70-130	
Bromodichloromethane	ug/L	50	49.0	98	70-130	
Bromoform	ug/L	50	50.8	102	70-130	
Bromomethane	ug/L	50	41.8	84	38-130 IH	
Carbon tetrachloride	ug/L	50	52.6	105	70-130	
Chlorobenzene	ug/L	50	53.6	107	70-130	
Chloroethane	ug/L	50	42.2	84	37-142	
Chloroform	ug/L	50	49.5	99	70-130	
Chloromethane	ug/L	50	49.8	100	48-130	
cis-1,2-Dichloroethene	ug/L	50	51.2	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	70-130	
Dibromochloromethane	ug/L	50	55.7	111	70-130	
Dibromomethane	ug/L	50	50.5	101	70-130	
Dichlorodifluoromethane	ug/L	50	44.2	88	53-134	
Diisopropyl ether	ug/L	50	58.7	117	70-135	
Ethylbenzene	ug/L	50	54.9	110	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.7	99	68-132 IH	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	52.4	105	70-130	
Methylene Chloride	ug/L	50	60.8	122	67-132 v1	
Naphthalene	ug/L	50	49.2	98	70-130	
o-Xylene	ug/L	50	54.1	108	70-131	
p-Isopropyltoluene	ug/L	50	56.8	114	70-130	
Styrene	ug/L	50	56.9	114	70-130	
Tetrachloroethene	ug/L	50	53.7	107	69-130	
Toluene	ug/L	50	46.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.4	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Trichloroethene	ug/L	50	50.5	101	70-130	
Trichlorofluoromethane	ug/L	50	43.4	87	63-130	
Vinyl acetate	ug/L	100	132	132	55-143 v1	
Vinyl chloride	ug/L	50	50.9	102	70-131	
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2894167		2894168									
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		92478005001	Spike Conc.	Spike Conc.	MSD Result	MS Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual	
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	120	139	120	139	73-134	15	30	H1,M1	
1,1,1-Trichloroethane	ug/L	ND	100	100	122	140	122	140	82-143	14	30	H1	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	121	140	121	140	70-136	15	30	H1,M1	
1,1,2-Trichloroethane	ug/L	ND	100	100	119	133	119	133	70-135	11	30	H1	
1,1-Dichloroethane	ug/L	ND	100	100	139	149	139	149	70-139	6	30	H1,M1	
1,1-Dichloroethylene	ug/L	ND	100	100	147	164	147	164	70-154	11	30	H1,M1	
1,1-Dichloropropene	ug/L	ND	100	100	131	147	131	147	70-149	11	30	H1	
1,2,3-Trichlorobenzene	ug/L	ND	100	100	116	130	116	130	70-135	11	30	H1	
1,2,3-Trichloropropane	ug/L	ND	100	100	123	144	123	144	71-137	16	30	H1,M1	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	123	123	123	123	73-140	0	30	H1	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	109	113	109	113	65-134	3	30	H1	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	125	146	125	146	70-137	15	30	H1,M1	
1,2-Dichlorobenzene	ug/L	ND	100	100	139	140	139	140	70-133	1	30	H1,M1	
1,2-Dichloroethane	ug/L	ND	100	100	137	148	137	148	70-137	8	30	H1,M1	
1,2-Dichloropropane	ug/L	ND	100	100	131	152	131	152	70-140	15	30	H1,M1	
1,3-Dichlorobenzene	ug/L	ND	100	100	133	134	133	134	70-135	1	30	H1	
1,3-Dichloropropane	ug/L	ND	100	100	134	156	134	156	70-143	15	30	H1,M1	
1,4-Dichlorobenzene	ug/L	ND	100	100	130	134	130	134	70-133	3	30	H1,M1	
2,2-Dichloropropane	ug/L	ND	100	100	128	138	128	138	61-148	7	30	H1	
2-Butanone (MEK)	ug/L	ND	200	200	274	298	137	149	60-139	8	30	H1,M1	
2-Chlorotoluene	ug/L	ND	100	100	145	143	145	143	70-144	1	30	H1,M1	
2-Hexanone	ug/L	ND	200	200	279	324	139	162	65-138	15	30	H1,M1, v1	
4-Chlorotoluene	ug/L	ND	100	100	134	136	134	136	70-137	1	30	H1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	200	200	285	322	139	157	65-135	12	30	H1,M1	
Acetone	ug/L	ND	200	200	276	304	138	152	60-148	10	30	H1,M1	
Benzene	ug/L	346	100	100	471	502	126	157	70-151	6	30	H1,M1	
Bromobenzene	ug/L	ND	100	100	138	138	138	138	70-136	0	30	H1,M1	
Bromochloromethane	ug/L	ND	100	100	122	135	122	135	70-141	10	30	H1	
Bromodichloromethane	ug/L	ND	100	100	118	133	118	133	70-138	12	30	H1	
Bromoform	ug/L	ND	100	100	106	117	106	117	63-130	9	30	H1	
Bromomethane	ug/L	ND	100	100	136	163	136	163	15-152	18	30	H1,IH, M1	
Carbon tetrachloride	ug/L	ND	100	100	127	142	127	142	70-143	12	30	H1	
Chlorobenzene	ug/L	ND	100	100	134	148	134	148	70-138	10	30	H1,M1	
Chloroethane	ug/L	ND	100	100	129	136	129	136	52-163	5	30	H1	
Chloroform	ug/L	ND	100	100	127	140	127	140	70-139	10	30	H1,M1	
Chloromethane	ug/L	ND	100	100	132	144	130	143	41-139	9	30	H1,M1	
cis-1,2-Dichloroethene	ug/L	ND	100	100	134	149	134	149	70-141	10	30	H1,M1	
cis-1,3-Dichloropropene	ug/L	ND	100	100	126	135	126	135	70-137	7	30	H1	
Dibromochloromethane	ug/L	ND	100	100	122	131	122	131	70-134	7	30	H1	
Dibromomethane	ug/L	ND	100	100	126	141	126	141	70-138	12	30	H1,M1	
Dichlorodifluoromethane	ug/L	ND	100	100	121	131	121	131	47-155	7	30	H1	
Diisopropyl ether	ug/L	8.9	100	100	158	174	149	165	63-144	10	30	H1,M1	
Ethylbenzene	ug/L	205	100	100	327	347	122	141	66-153	6	30	H1	

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

		MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2894167		2894168					
Parameter	Units	MS		MSD							
		92478005001	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Hexachloro-1,3-butadiene	ug/L	ND	100	100	132	135	132	135	65-149	2	30 H1,IH
m&p-Xylene	ug/L	719	200	200	969	998	125	140	69-152	3	30 H1
Methyl-tert-butyl ether	ug/L	27.4	100	100	157	168	129	141	54-156	7	30 H1
Methylene Chloride	ug/L	ND	100	100	155	170	155	170	42-159	9	30 H1,M1, v1
Naphthalene	ug/L	110	100	100	230	229	120	120	61-148	0	30 H1
o-Xylene	ug/L	378	100	100	512	521	135	143	70-148	2	30 H1
p-Isopropyltoluene	ug/L	ND	100	100	155	158	155	158	70-146	1	30 H1,M1
Styrene	ug/L	ND	100	100	135	144	132	141	70-135	7	30 H1,M1
Tetrachloroethene	ug/L	ND	100	100	128	147	128	147	59-143	14	30 H1,M1
Toluene	ug/L	644	100	100	747	776	103	133	59-148	4	30 H1
trans-1,2-Dichloroethene	ug/L	ND	100	100	141	154	141	154	70-146	9	30 H1,M1
trans-1,3-Dichloropropene	ug/L	ND	100	100	121	133	121	133	70-135	9	30 H1
Trichloroethene	ug/L	ND	100	100	131	139	131	139	70-147	6	30 H1
Trichlorofluoromethane	ug/L	ND	100	100	114	129	114	129	70-148	13	30 H1
Vinyl acetate	ug/L	ND	200	200	322	367	161	184	49-151	13	30 H1,M1, v1
Vinyl chloride	ug/L	ND	100	100	136	147	136	147	70-156	8	30 H1
Xylene (Total)	ug/L	1100	300	300	1480	1520	128	141	63-158	3	30
1,2-Dichloroethane-d4 (S)	%						111	113	70-130		
4-Bromofluorobenzene (S)	%						100	102	70-130		
Toluene-d8 (S)	%						100	103	70-130		

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QUALITY CONTROL DATA

Project: Kop-Flex offsite
Pace Project No.: 92478024

QC Batch:	542729	Analysis Method:	EPA 8260D Mod.
QC Batch Method:	EPA 8260D Mod.	Analysis Description:	8260D MSV SIM
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples:	92478024001, 92478024003, 92478024004, 92478024005, 92478024006, 92478024007, 92478024008, 92478024009, 92478024010, 92478024011, 92478024012, 92478024013, 92478024014, 92478024015		

METHOD BLANK: 2891387 Matrix: Water

Associated Lab Samples: 92478024001, 92478024003, 92478024004, 92478024005, 92478024006, 92478024007, 92478024008,
92478024009, 92478024010, 92478024011, 92478024012, 92478024013, 92478024014, 92478024015

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/20/20 17:52	
1,2-Dichloroethane-d4 (S)	%	98	50-150	05/20/20 17:52	
Toluene-d8 (S)	%	106	50-150	05/20/20 17:52	

LABORATORY CONTROL SAMPLE: 2891388

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
1,4-Dioxane (p-Dioxane)	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane-d4 (S)	%			106	50-150	
Toluene-d8 (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2891389 2891390

Parameter	Units	MS		MSD		MS	MSD	% Rec	% Rec	RPD	Max	
		92478023002	Result	Spike	Conc.	MS	Result	MS	Result	MS	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	99.8	20		20	120	127	99	134	50-150	6	30 E
1,2-Dichloroethane-d4 (S)	%							95	95	50-150		30
Toluene-d8 (S)	%							99	115	50-150		30

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QUALITY CONTROL DATA

Project: Kop-Flex offsite

Pace Project No.: 92478024

QC Batch: 542881 Analysis Method: EPA 8260D Mod.

QC Batch Method: EPA 8260D Mod. Analysis Description: 8260D MSV SIM

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92478024002

METHOD BLANK: 2892029 Matrix: Water

Associated Lab Samples: 92478024002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/21/20 12:13	
1,2-Dichloroethane-d4 (S)	%	94	50-150	05/21/20 12:13	
Toluene-d8 (S)	%	105	50-150	05/21/20 12:13	

LABORATORY CONTROL SAMPLE: 2892030

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)	%			92	50-150	
Toluene-d8 (S)	%			105	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2892586 2892587

Parameter	Units	92478032017 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	18.8	19.1	90	92	50-150	2	30	
1,2-Dichloroethane-d4 (S)	%						106	105	50-150		30	
Toluene-d8 (S)	%						111	110	50-150		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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QUALIFIERS

Project: Kop-Flex offsite
 Pace Project No.: 92478024

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- H1 Analysis conducted outside the EPA method holding time.
- IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- 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: Kop-Flex offsite
Pace Project No.: 92478024

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92478024001	MW-24D	EPA 8260D	543382		
92478024002	MW-46D	EPA 8260D	542931		
92478024003	MW-29D	EPA 8260D	543382		
92478024004	MW-30D-273	EPA 8260D	542931		
92478024005	MW-30D-413	EPA 8260D	542931		
92478024006	MW-32D	EPA 8260D	542931		
92478024007	MW-33D-295	EPA 8260D	542927		
92478024008	MW-33D-235	EPA 8260D	542931		
92478024009	MW-35D	EPA 8260D	542931		
92478024010	MW-34D	EPA 8260D	543382		
92478024011	MW-28D	EPA 8260D	542931		
92478024012	MW-36D	EPA 8260D	542931		
92478024013	Dup051420	EPA 8260D	542931		
92478024014	MW-25D-130	EPA 8260D	542931		
92478024015	MW-25D-190	EPA 8260D	542927		
92478024001	MW-24D	EPA 8260D Mod.	542729		
92478024002	MW-46D	EPA 8260D Mod.	542881		
92478024003	MW-29D	EPA 8260D Mod.	542729		
92478024004	MW-30D-273	EPA 8260D Mod.	542729		
92478024005	MW-30D-413	EPA 8260D Mod.	542729		
92478024006	MW-32D	EPA 8260D Mod.	542729		
92478024007	MW-33D-295	EPA 8260D Mod.	542729		
92478024008	MW-33D-235	EPA 8260D Mod.	542729		
92478024009	MW-35D	EPA 8260D Mod.	542729		
92478024010	MW-34D	EPA 8260D Mod.	542729		
92478024011	MW-28D	EPA 8260D Mod.	542729		
92478024012	MW-36D	EPA 8260D Mod.	542729		
92478024013	Dup051420	EPA 8260D Mod.	542729		
92478024014	MW-25D-130	EPA 8260D Mod.	542729		
92478024015	MW-25D-190	EPA 8260D Mod.	542729		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: February 7, 2018
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition
Upon Receipt

Client Name:

WSP

Project #:

WO# : 92478024



92478024

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: IR Gun ID: 92T061

Type of Ice: Wet Blue None

Cooler Temp (°C): 58, 69, 107 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 59, 70, 108

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Ice melted

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: February 7, 2018
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.06

Issuing Authority:
Pace Carolinas Quality Office

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

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

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

Project #

WO# : 92478024

PM: PTE

Due Date: 05/26/20

CLIENT: 92-WSP

PJ

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFIU-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 Ump (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VDAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGNU-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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
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6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			

pH Adjustment Log for Preserved Samples

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

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



Document Name:

Sample Condition Upon Receipt(SCUR)

Document Revised: February 7, 2018

Page 1 of 2

Document No.:

F-CAR-CS-033-Rev.06

Issuing Authority:

Pace Carolinas Quality Office

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

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

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

Project # **WO# : 92478024**

PM: PTE

Due Date: 05/26/20

CLIENT: 92-WSP

PO#

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 NaOH (pH > 12) (Cl-)	WGFL-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VDAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG5U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		

pH Adjustment Log for Preserved Samples

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

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

Offsite

CHAIN-OF-CUSTODY RECORD

WSP USA Office Address

13530 Dulles Technology Dr Ste 300 Herndon VA

Project Name

Kopflex - offsite

Project Location

Herndon, MD

Project Number & Task

31401545.011 11

Sampler(s) Name(s)

Molly Long

Sampler(s) Signature(s)

Elliott Martynkiewicz

WSP USA Contact Name

Eric Johnson

WSP USA Contact E-mail

@wsp.com

WSP USA Contact Phone

(703)-709-6500

Sample Identification

Matrix

Collection Set

Collection Stop

Number of Containers

MW-30D

AQ

05/10/20 1555

6

MW-30D

AQ

05/10/20 1745

6

MW-30D

AQ

5/14/20 1330

6

MW-30D-272

AQ

5/14/20 1345

6

MW-30D-413

AQ

5/14/20 1355

6

MW-32D

AQ

5/14/20 1420

6

MW-33D-245

AQ

5/14/20 1505

6

MW-33D-235

AQ

5/14/20 1515

6

MW-35D-

AQ

5/14/20 1555

6

MW-34D

AQ

5/14/20 1605

6

MW-28D

AQ

5/14/20 1630

6

MW-36D

AQ

5/14/20 1645

6

DU051420

AQ

5/14/20 0905

6

MW-25D-130

AQ

5/14/20 1705

6

MW-25D-190

AQ

5/14/20 1710

6

Relinquished By (Signature)

M

Received By (Signature)

Friday

Date

5/14/20

Time

11:45 AM

Relinquished By (Signature)

S

Received By (Signature)

Soper Rose

Date

5/18/20

Time

9:12

No. 010012

1151

Laboratory Name & Location

Race, HAWKSVILLE, NC

Laboratory Project Manager

Taylor Ezell

Requested Turn-Around-Time

 Standard 24 HR 48 HR 72 HR ____ HR

Sample Comments

001 - 97478024

002

003

004

005

006

007

008

009

010

011

012

013

014

015

Requested Analyses & Preservatives

No. 010012

1151

Tracking Number(s)

Custody Seal Number(s)

Number of Packages

Date

5/18/20

Time

9:12

Page 1 of

Page 58 of 58

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

June 10, 2020

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

RE: Project: KOP-Flex
Pace Project No.: 92480486

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Charlotte

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

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Molly Long, WSP
Pam Robertson, WSP USA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: KOP-Flex
Pace Project No.: 92480486

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: KOP-Flex
Pace Project No.: 92480486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92480486001	MW-31D	Water	06/02/20 16:15	06/03/20 16:47

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: KOP-Flex
 Pace Project No.: 92480486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92480486001	MW-31D	EPA 8260D EPA 8260D Mod.	CL LMB	63 3	PASI-C PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KOP-Flex
Pace Project No.: 92480486

Sample: MW-31D	Lab ID: 92480486001	Collected: 06/02/20 16:15	Received: 06/03/20 16:47	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		06/09/20 00:15	67-64-1	
Benzene	ND	ug/L	1.0	1		06/09/20 00:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/09/20 00:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/09/20 00:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/09/20 00:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/09/20 00:15	75-25-2	IK
Bromomethane	ND	ug/L	2.0	1		06/09/20 00:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/09/20 00:15	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/09/20 00:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/09/20 00:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/09/20 00:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/09/20 00:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/09/20 00:15	74-87-3	v2
2-Chlorotoluene	ND	ug/L	1.0	1		06/09/20 00:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/09/20 00:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		06/09/20 00:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/09/20 00:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/09/20 00:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/09/20 00:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/09/20 00:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/09/20 00:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/09/20 00:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/09/20 00:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/09/20 00:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/09/20 00:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/09/20 00:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/09/20 00:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/09/20 00:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/09/20 00:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/09/20 00:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/09/20 00:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/09/20 00:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/09/20 00:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/09/20 00:15	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/09/20 00:15	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/09/20 00:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/09/20 00:15	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/09/20 00:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/09/20 00:15	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/09/20 00:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/09/20 00:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/09/20 00:15	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/09/20 00:15	91-20-3	
Styrene	ND	ug/L	1.0	1		06/09/20 00:15	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/09/20 00:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/09/20 00:15	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: KOP-Flex
Pace Project No.: 92480486

Sample: MW-31D	Lab ID: 92480486001	Collected: 06/02/20 16:15	Received: 06/03/20 16:47	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			06/09/20 00:15	127-18-4
Toluene	ND	ug/L	1.0	1			06/09/20 00:15	108-88-3
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1			06/09/20 00:15	87-61-6
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1			06/09/20 00:15	120-82-1
1,1,1-Trichloroethane	ND	ug/L	1.0	1			06/09/20 00:15	71-55-6
1,1,2-Trichloroethane	ND	ug/L	1.0	1			06/09/20 00:15	79-00-5
Trichloroethene	ND	ug/L	1.0	1			06/09/20 00:15	79-01-6
Trichlorofluoromethane	ND	ug/L	1.0	1			06/09/20 00:15	75-69-4
1,2,3-Trichloropropane	ND	ug/L	1.0	1			06/09/20 00:15	96-18-4
Vinyl acetate	ND	ug/L	2.0	1			06/09/20 00:15	108-05-4
Vinyl chloride	ND	ug/L	1.0	1			06/09/20 00:15	75-01-4
Xylene (Total)	ND	ug/L	1.0	1			06/09/20 00:15	1330-20-7
m&p-Xylene	ND	ug/L	2.0	1			06/09/20 00:15	179601-23-1
o-Xylene	ND	ug/L	1.0	1			06/09/20 00:15	95-47-6
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1			06/09/20 00:15	460-00-4
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			06/09/20 00:15	17060-07-0
Toluene-d8 (S)	101	%	70-130	1			06/09/20 00:15	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			06/09/20 02:33	123-91-1
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	50-150	1			06/09/20 02:33	17060-07-0
Toluene-d8 (S)	89	%	50-150	1			06/09/20 02:33	2037-26-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KOP-Flex
Pace Project No.: 92480486

QC Batch:	545838	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV Low Level
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92480486001

METHOD BLANK: 2906078 Matrix: Water

Associated Lab Samples: 92480486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/08/20 23:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/08/20 23:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/08/20 23:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/08/20 23:58	
1,1-Dichloroethane	ug/L	ND	1.0	06/08/20 23:58	
1,1-Dichloroethene	ug/L	ND	1.0	06/08/20 23:58	
1,1-Dichloropropene	ug/L	ND	1.0	06/08/20 23:58	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/08/20 23:58	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/08/20 23:58	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/08/20 23:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	06/08/20 23:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/08/20 23:58	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/08/20 23:58	
1,2-Dichloroethane	ug/L	ND	1.0	06/08/20 23:58	
1,2-Dichloropropane	ug/L	ND	1.0	06/08/20 23:58	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/08/20 23:58	
1,3-Dichloropropane	ug/L	ND	1.0	06/08/20 23:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/08/20 23:58	
2,2-Dichloropropane	ug/L	ND	1.0	06/08/20 23:58	
2-Butanone (MEK)	ug/L	ND	5.0	06/08/20 23:58	
2-Chlorotoluene	ug/L	ND	1.0	06/08/20 23:58	
2-Hexanone	ug/L	ND	5.0	06/08/20 23:58	
4-Chlorotoluene	ug/L	ND	1.0	06/08/20 23:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/08/20 23:58	
Acetone	ug/L	ND	25.0	06/08/20 23:58	
Benzene	ug/L	ND	1.0	06/08/20 23:58	
Bromobenzene	ug/L	ND	1.0	06/08/20 23:58	
Bromochloromethane	ug/L	ND	1.0	06/08/20 23:58	
Bromodichloromethane	ug/L	ND	1.0	06/08/20 23:58	
Bromoform	ug/L	ND	1.0	06/08/20 23:58	IK
Bromomethane	ug/L	ND	2.0	06/08/20 23:58	
Carbon tetrachloride	ug/L	ND	1.0	06/08/20 23:58	
Chlorobenzene	ug/L	ND	1.0	06/08/20 23:58	
Chloroethane	ug/L	ND	1.0	06/08/20 23:58	
Chloroform	ug/L	ND	5.0	06/08/20 23:58	
Chloromethane	ug/L	ND	1.0	06/08/20 23:58	v2
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/08/20 23:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/08/20 23:58	
Dibromochloromethane	ug/L	ND	1.0	06/08/20 23:58	
Dibromomethane	ug/L	ND	1.0	06/08/20 23:58	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KOP-Flex
Pace Project No.: 92480486

METHOD BLANK: 2906078 Matrix: Water

Associated Lab Samples: 92480486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	06/08/20 23:58	
Diisopropyl ether	ug/L	ND	1.0	06/08/20 23:58	
Ethylbenzene	ug/L	ND	1.0	06/08/20 23:58	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/08/20 23:58	
m&p-Xylene	ug/L	ND	2.0	06/08/20 23:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/08/20 23:58	
Methylene Chloride	ug/L	ND	5.0	06/08/20 23:58	
Naphthalene	ug/L	ND	1.0	06/08/20 23:58	
o-Xylene	ug/L	ND	1.0	06/08/20 23:58	
p-Isopropyltoluene	ug/L	ND	1.0	06/08/20 23:58	
Styrene	ug/L	ND	1.0	06/08/20 23:58	
Tetrachloroethene	ug/L	ND	1.0	06/08/20 23:58	
Toluene	ug/L	ND	1.0	06/08/20 23:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/08/20 23:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/08/20 23:58	
Trichloroethene	ug/L	ND	1.0	06/08/20 23:58	
Trichlorofluoromethane	ug/L	ND	1.0	06/08/20 23:58	
Vinyl acetate	ug/L	ND	2.0	06/08/20 23:58	
Vinyl chloride	ug/L	ND	1.0	06/08/20 23:58	
Xylene (Total)	ug/L	ND	1.0	06/08/20 23:58	
1,2-Dichloroethane-d4 (S)	%	96	70-130	06/08/20 23:58	
4-Bromofluorobenzene (S)	%	104	70-130	06/08/20 23:58	
Toluene-d8 (S)	%	103	70-130	06/08/20 23:58	

LABORATORY CONTROL SAMPLE: 2906079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	70-130	
1,1,1-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	48.0	96	70-130	
1,1-Dichloroethene	ug/L	50	47.8	96	70-130	
1,1-Dichloropropene	ug/L	50	51.4	103	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.0	98	70-130	
1,2,3-Trichloropropane	ug/L	50	48.8	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.9	108	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.9	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.7	97	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
1,2-Dichloropropene	ug/L	50	47.6	95	70-130	
1,3-Dichlorobenzene	ug/L	50	46.6	93	70-130	
1,3-Dichloropropane	ug/L	50	48.1	96	70-131	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KOP-Flex
Pace Project No.: 92480486

LABORATORY CONTROL SAMPLE: 2906079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	47.7	95	70-130	
2,2-Dichloropropane	ug/L	50	45.5	91	69-130	
2-Butanone (MEK)	ug/L	100	91.9	92	64-135	
2-Chlorotoluene	ug/L	50	48.2	96	70-130	
2-Hexanone	ug/L	100	94.0	94	66-135	
4-Chlorotoluene	ug/L	50	46.3	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	87.5	88	70-130	
Acetone	ug/L	100	90.6	91	61-157	
Benzene	ug/L	50	48.3	97	70-130	
Bromobenzene	ug/L	50	48.3	97	70-130	
Bromochloromethane	ug/L	50	46.5	93	70-130	
Bromodichloromethane	ug/L	50	50.3	101	70-130	
Bromoform	ug/L	50	47.4	95	70-130 IK	
Bromomethane	ug/L	50	44.4	89	38-130	
Carbon tetrachloride	ug/L	50	53.6	107	70-130	
Chlorobenzene	ug/L	50	46.3	93	70-130	
Chloroethane	ug/L	50	40.6	81	37-142	
Chloroform	ug/L	50	52.4	105	70-130	
Chloromethane	ug/L	50	29.5	59	48-130 v3	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	50.0	100	70-130	
Dibromomethane	ug/L	50	53.8	108	70-130	
Dichlorodifluoromethane	ug/L	50	42.8	86	53-134	
Diisopropyl ether	ug/L	50	41.6	83	70-135	
Ethylbenzene	ug/L	50	46.4	93	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.3	101	68-132	
m&p-Xylene	ug/L	100	92.7	93	70-130	
Methyl-tert-butyl ether	ug/L	50	51.6	103	70-130	
Methylene Chloride	ug/L	50	40.9	82	67-132	
Naphthalene	ug/L	50	47.3	95	70-130	
o-Xylene	ug/L	50	46.1	92	70-131	
p-Isopropyltoluene	ug/L	50	47.2	94	70-130	
Styrene	ug/L	50	47.4	95	70-130	
Tetrachloroethene	ug/L	50	46.2	92	69-130	
Toluene	ug/L	50	47.1	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Trichloroethene	ug/L	50	51.1	102	70-130	
Trichlorofluoromethane	ug/L	50	42.3	85	63-130	
Vinyl acetate	ug/L	100	88.4	88	55-143	
Vinyl chloride	ug/L	50	45.5	91	70-131	
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			96	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: KOP-Flex
Pace Project No.: 92480486

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2906080		2906081									
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		92480286016	Result	Spike Conc.	Spike Conc.	MS Result	MSD	% Rec	MSD % Rec	Limits	RPD	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.3	20.2	102	101	73-134	1	30		
1,1,1-Trichloroethane	ug/L	ND	20	20	22.7	22.9	113	114	82-143	1	30		
1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.2	18.7	96	94	70-136	3	30		
1,1,2-Trichloroethane	ug/L	ND	20	20	21.3	20.6	105	102	70-135	3	30		
1,1-Dichloroethane	ug/L	163	20	20	173	172	50	45	70-139	1	30	M1	
1,1-Dichloroethylene	ug/L	31.1	20	20	51.6	49.7	102	93	70-154	4	30		
1,1-Dichloropropene	ug/L	ND	20	20	22.6	22.4	113	112	70-149	1	30		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.9	19.5	94	98	70-135	4	30		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.0	20.0	105	100	71-137	5	30		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.0	20.7	110	103	73-140	6	30		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.5	20.3	102	102	65-134	1	30		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	18.5	97	93	70-137	5	30		
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	19.6	98	98	70-133	1	30		
1,2-Dichloroethane	ug/L	ND	20	20	20.3	20.2	99	98	70-137	1	30		
1,2-Dichloropropane	ug/L	ND	20	20	20.5	19.9	103	99	70-140	3	30		
1,3-Dichlorobenzene	ug/L	ND	20	20	20.0	19.5	100	98	70-135	3	30		
1,3-Dichloropropane	ug/L	ND	20	20	19.8	18.0	99	90	70-143	9	30		
1,4-Dichlorobenzene	ug/L	ND	20	20	19.7	18.5	99	92	70-133	7	30		
2,2-Dichloropropane	ug/L	ND	20	20	20.2	18.7	101	94	61-148	7	30		
2-Butanone (MEK)	ug/L	ND	40	40	41.6	39.9	104	100	60-139	4	30		
2-Chlorotoluene	ug/L	ND	20	20	21.0	20.6	105	103	70-144	2	30		
2-Hexanone	ug/L	ND	40	40	40.0	38.4	100	96	65-138	4	30		
4-Chlorotoluene	ug/L	ND	20	20	20.3	19.4	101	97	70-137	5	30		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	37.5	37.1	94	93	65-135	1	30		
Acetone	ug/L	ND	40	40	42.4	38.7	106	97	60-148	9	30		
Benzene	ug/L	ND	20	20	21.9	21.0	107	103	70-151	4	30		
Bromobenzene	ug/L	ND	20	20	21.2	20.6	106	103	70-136	3	30		
Bromochloromethane	ug/L	ND	20	20	18.5	19.4	93	97	70-141	5	30		
Bromodichloromethane	ug/L	ND	20	20	21.7	20.8	109	104	70-138	4	30		
Bromoform	ug/L	ND	20	20	17.2	17.6	86	88	63-130	2	30	IK	
Bromomethane	ug/L	ND	20	20	12.5	12.9	62	64	15-152	3	30	v3	
Carbon tetrachloride	ug/L	ND	20	20	24.9	23.9	125	119	70-143	4	30		
Chlorobenzene	ug/L	ND	20	20	20.2	20.0	101	100	70-138	1	30		
Chloroethane	ug/L	ND	20	20	20.0	18.9	100	95	52-163	5	30		
Chloroform	ug/L	ND	20	20	21.6	21.6	108	108	70-139	0	30		
Chloromethane	ug/L	ND	20	20	12.0	12.7	60	63	41-139	5	30	v3	
cis-1,2-Dichloroethene	ug/L	58.6	20	20	75.4	73.6	84	75	70-141	2	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	22.5	21.2	112	106	70-137	6	30		
Dibromochloromethane	ug/L	ND	20	20	21.4	19.9	107	100	70-134	7	30		
Dibromomethane	ug/L	ND	20	20	23.7	22.1	119	110	70-138	7	30		
Dichlorodifluoromethane	ug/L	ND	20	20	17.9	16.4	89	82	47-155	9	30		
Diisopropyl ether	ug/L	ND	20	20	18.0	17.5	90	88	63-144	2	30		
Ethylbenzene	ug/L	ND	20	20	20.6	20.1	103	101	66-153	2	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	19.5	20.3	97	101	65-149	4	30		

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QUALITY CONTROL DATA

Project: KOP-Flex
Pace Project No.: 92480486

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2906080 2906081

Parameter	Units	MS		MSD		MS Result	% Rec	MSD % Rec	% Rec	Max	
		92480286016	Spike Conc.	Spike Conc.	MS Result					RPD	RPD
m&p-Xylene	ug/L	ND	40	40	41.0	40.1	103	100	69-152	2	30
Methyl-tert-butyl ether	ug/L	ND	20	20	20.5	19.6	103	98	54-156	5	30
Methylene Chloride	ug/L	ND	20	20	18.4	17.8	92	89	42-159	3	30
Naphthalene	ug/L	ND	20	20	18.2	17.6	91	88	61-148	3	30
o-Xylene	ug/L	ND	20	20	20.5	20.9	103	105	70-148	2	30
p-Isopropyltoluene	ug/L	ND	20	20	19.9	18.6	99	93	70-146	7	30
Styrene	ug/L	ND	20	20	21.0	20.2	105	101	70-135	4	30
Tetrachloroethene	ug/L	ND	20	20	20.9	21.3	105	106	59-143	2	30
Toluene	ug/L	ND	20	20	20.5	20.0	102	100	59-148	3	30
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.0	102	100	70-146	2	30
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.5	20.2	103	101	70-135	2	30
Trichloroethene	ug/L	10.3	20	20	32.8	32.8	112	112	70-147	0	30
Trichlorofluoromethane	ug/L	ND	20	20	18.7	18.8	93	94	70-148	1	30
Vinyl acetate	ug/L	ND	40	40	33.2	32.3	83	81	49-151	3	30
Vinyl chloride	ug/L	1.4	20	20	19.8	19.3	92	89	70-156	2	30
Xylene (Total)	ug/L	ND	60	60	61.6	61.0	103	102	63-158	1	30
1,2-Dichloroethane-d4 (S)	%						95	93	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						100	97	70-130		

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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QUALITY CONTROL DATA

Project: KOP-Flex
Pace Project No.: 92480486

QC Batch:	545927	Analysis Method:	EPA 8260D Mod.
QC Batch Method:	EPA 8260D Mod.	Analysis Description:	8260D MSV SIM
		Laboratory:	Pace Analytical Services - Charlotte
Associated Lab Samples: 92480486001			

METHOD BLANK: 2906496 Matrix: Water

Associated Lab Samples: 92480486001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	06/08/20 21:31	
1,2-Dichloroethane-d4 (S)	%	95	50-150	06/08/20 21:31	
Toluene-d8 (S)	%	93	50-150	06/08/20 21:31	

LABORATORY CONTROL SAMPLE: 2906497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane-d4 (S)	%			93	50-150	
Toluene-d8 (S)	%			92	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2906498 2906499

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
1,4-Dioxane (p-Dioxane)	ug/L	10.4	20	20	29.5	28.5	96	90	50-150	4	30
1,2-Dichloroethane-d4 (S)	%						98	97	50-150		30
Toluene-d8 (S)	%						97	97	50-150		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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QUALIFIERS

Project: KOP-Flex
Pace Project No.: 92480486

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- IK The recalculated concentration of the calibration standard(s) did not meet method acceptance criteria; this result should be considered an estimated value.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- 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
 Pace Project No.: 92480486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92480486001	MW-31D	EPA 8260D	545838		
92480486001	MW-31D	EPA 8260D Mod.	545927		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Sample Condition
Upon Receipt

Client Name:

WSP

Project #:

WO# : 92480486



92480486

EF 6/4/18

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes NoPacking Material: Bubble Wrap Bubble Bags None OtherBiological Tissue Frozen?
 Yes No N/AThermometer: IR Gun ID: 92T061 Type of Ice: Wet Blue None

Cooler Temp (°C): 5.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 5.2

 Samples out of temp criteria. Samples on ice, cooling process has begunUSDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

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

Comments/Discrepancy:

Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact?	<input 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 type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	WT	
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

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

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

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

Project #

WO# : 92480486

PM: PTE

Due Date: 06/10/20

CLIENT: 92-WSP

1	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-vPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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).

