



**VIA ELECTRONIC MAIL**

January 31, 2020

John Hopkins  
Remedial Project Manager  
U.S. Environmental Protection Agency, Region III  
1650 Arch Street  
Mail Code – 3LD10  
Philadelphia, PA 19103-2029

**Subject:**      **Quarterly Progress Report No. 13**  
**Former Kop-Flex Facility Site, Hanover, Maryland**  
**USEPA ID No. MDD043373935**  
**Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA**

Dear John:

On behalf of EMERSUB 16, LLC, a subsidiary of Emerson Electric Co., WSP USA, Inc. (WSP) is submitting this quarterly progress report describing the remedial and groundwater monitoring activities conducted in the fourth quarter of calendar year 2019 (October 1 through December 31) as part of the corrective measures implementation at the former Kop-Flex, Inc. facility property located at 7555 Harmans Road (Site) in Hanover, Maryland. The Site is identical to the area described as the “Facility” in the Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA (Consent Order) for the Site. The report also describes the activities planned for the first quarter of calendar year 2020 (January 1 through March 31).

This progress report is being submitted to the U.S. Environmental Protection Agency (EPA) pursuant to Section VI.C.3 of the Consent Order. Please note that, in addition to performing the work conducted under the Consent Order, EMERSUB 16 continues to fulfill its remedial obligations under the October 2015 Response Action Plan (RAP) approved by the Maryland Department of the Environment (MDE) Voluntary Cleanup Program, and that EMERSUB 16 copies EPA on all submittals required under that program.

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

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Encl.

cc:      Mr. Stephen Clarke, EMERSUB 16 LLC  
          Ms. Richelle Hanson, Maryland Department of the Environment

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

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wsp.com



## CERTIFICATION

I certify that the information contained in or accompanying this quarterly progress report is true, accurate, and complete.

As to those portions of this quarterly progress report for which I cannot personally verify their accuracy, I certify under penalty of law that this quarterly report and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature:

Name:

Stephen L. Clarke

Title:

President of EMERSUB 16, LLC

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

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## **Quarterly Progress Report No. 13**

Former Kop-Flex Facility Site

October 2019 through December 2019

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

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

**Project Coordinator:** Eric Johnson  
**Alternate:** Lisa Kelly

## **1.0 ACTIVITIES COMPLETED DURING OCTOBER 2019 – DECEMBER 2019 REPORTING PERIOD**

### **1.1 HYDRAULIC CONTAINMENT SYSTEM OPERATION**

- The hydraulic containment system (System) resumed operation on October 10, 2019, following the completion of modifications to the pipe discharging the treated water to manhole MH 4, which is located near the storm water management area (SWMA) in the northwestern portion of the Site. The System operated continuously from this date until December 27, 2019, except for brief (1 to 2-day) shut-downs in late October and late November due to temporary issues with the pH adjustment system and resin regeneration process, respectively. While in operation, a total of approximately 7.51 million gallons of impacted groundwater were extracted by the recovery wells and treated by the System, with the combined withdrawal rate ranging from 67-69 gallons per minute.
- During system operation, water samples were collected for chemical analysis in October (influent) and October through December (effluent) to monitor and evaluate VOC concentrations in the untreated and treated water. The total concentration of chlorinated VOCs (CVOCs) and 1,4-dioxane for the System influent sample was 431 micrograms per liter ( $\mu\text{g/l}$ ), which is slightly lower than the concentrations in the other 2019 samples. The extracted groundwater continued to have higher concentrations of chlorinated ethanes and ethenes ( $311 \mu\text{g/l}$ ) compared to 1,4-dioxane ( $120 \mu\text{g/l}$ ). As of the end of December 2019, a total of 293 pounds of CVOCs and 121 pounds of 1,4-dioxane had been recovered from the aquifer system.

Monthly effluent samples were collected for chemical analysis in accordance with State Discharge Permit Number 15-DP-3442 and National Pollutant Discharge Elimination System (NPDES) Permit MD 0069094 issued by the MDE (Discharge Permit). Analysis of the effluent samples indicated non-detect concentrations of VOCs and very low to low concentrations of 1,4-dioxane ( $1.2 \mu\text{g/l}$  to  $12 \mu\text{g/l}$ ). The analytical results for these and the other monitoring parameters were in compliance with the effluent limitations specified in the Discharge Permit.

- WSP continued working with the treatment system vendor, Emerging Compound Treatment Technologies (ECT<sup>2</sup>), on the preparations for the cleaning of the specialty resin material used to treat the contaminated groundwater. As part of this planning, WSP also contacted the tenant occupying the buildings on the property – Paragon Gene Therapy (Paragon) – to obtain its input on the logistics and scheduling of the cleaning activities.
- During the week of December 23<sup>rd</sup>, the System automatically shut-down twice in response to a low pH alarm in the treated effluent line. Troubleshooting of the pH adjustment equipment suggested the anti-siphon valve, which is installed at the caustic injection point in the water pipeline, was malfunctioning and preventing caustic solution from being added to the effluent to raise



the pH prior to discharge. A replacement valve was ordered and installed early the week of January 6, 2020, whereupon WSP and its O&M contractor resumed operation of the System. WSP apprised the USEPA and MDE of the system operational status via an electronic mail communication on January 2, 2020.

## 1.2 INSPECTION OF ENGINEERING CONTROLS

- On November 15, 2019, an inspection of the engineering controls implemented at the Site was conducted in accordance with Section 4.0 of the revised Use Restriction Implementation Plan (URIP) (May 2018). (EPA has not yet approved the revised URIP.) The engineering controls include a hard cap in the south building, which consists of concrete floor slabs for the former (*i.e.*, Kop-Flex) and new buildings and a small portion of the concrete pavement adjacent to the new building, and the passive, sub-slab vapor venting systems installed in both the north and south buildings. Representatives of ECS Mid-Atlantic, the property owner's environmental consultant, and Paragon accompanied WSP personnel during the inspection activities.
- Based on the observed site conditions, the engineering controls at the Site are in good condition. On November 15, 2019, WSP observed an air intake vent for the sub-slab vapor collection system in the north building protruding from the exterior wall. The repair of this intake vent was completed by Paragon in early December 2019, and documentation of the repairs provided to WSP for review. In addition, WSP recommended that debris that had accumulated in some of the air intakes along the north building be removed to ensure maximum air flow through the sub-slab venting system for this structure.

## 1.3 GROUNDWATER LEVEL MONITORING

- Groundwater level monitoring is conducted to gather data to evaluate the hydraulic response to remedial pumping in both the unconfined and confined portions of the Lower Patapsco aquifer at the Site and adjacent properties. During the reporting period, water level measurements were collected from all monitoring wells and recovery well piezometers the week of November 18, 2019, as part of the semi-annual groundwater monitoring event. The data for this and previous measurement rounds is provided in Table 1. A discussion of the groundwater level monitoring data is provided below, with additional information presented in the 2019 Hydraulic Containment System Operation, Maintenance and Monitoring (OM&M) Report.
- Contour maps depicting the water table and hydraulic head conditions in the lower portion of the shallow, unconfined zone are provided in Figures 1 and 2, respectively. Evaluation of the hydraulic head distribution and gradients at the groundwater surface and lower portion of the unconfined zone are discussed separately below.

The water table contour map (Figure 1) indicates the continued presence of a localized depression in the groundwater surface around well MW-38R, which is located near recovery wells RW-1S and RW-2S, and a slight mounding effect around wells MW-04 and MW-09 in the eastern portion of the Site. The water table mounding reflects enhanced recharge to the groundwater system associated with the storm water management area in this portion of the Site. A significant amount of rainfall (>6 inches) occurred in the Hanover, Maryland, area during late October and early November 2019.

As with previous measurement rounds, the most pronounced head changes (*i.e.*, drawdown) occurred within the permeable sand deposits comprising the lower portion of the unconfined zone, with a well-developed cone of depression centered around the shallow recovery wells and extending to the north toward well MW-43 (Figure 2). Based on the head contours, the groundwater inflow area for the shallow recovery wells encompasses the inferred width of the contaminant plume in the western portion of the Site.

- The potentiometric surface contour map for the confined portion of the Lower Patapsco aquifer generated from the November 2019 water level data is provided in Figure 3. The head distribution shows the continued existence of an elongated hydraulic sink along the southern property boundary in response to groundwater withdrawals from the deep recovery wells. Evaluation of the head distribution indicates drawdown of the potentiometric surface extending south onto the adjoining Williams Scotsman



property. The groundwater inflow area for the deeper recovery wells encompasses the inferred width of the deep contaminant plume in the southern portion of the Site.

## 1.4 GROUNDWATER QUALITY MONITORING

- In accordance with the Groundwater Monitoring Plan, groundwater quality samples were collected from the shallow and deep recovery wells and the onsite monitoring wells identified for semi-annual sampling under the monitoring program. Samples from the shallow and deep monitoring wells were collected using HydraSleeve passive samplers, which were deployed to the same depths as previous monitoring events. Following the equilibration period, samples were obtained by carefully removing the HydraSleeve sampler from each well and decanting a representative portion of the collected water into the laboratory-supplied containers. For the recovery wells, the samples were collected directly from an in-line sampling port located at each well-head. All water samples were submitted to the Pace Analytical Services laboratory in Huntersville, North Carolina, and analyzed for VOCs using EPA SW-846 Test Method 8260B and 1,4-dioxane using modified EPA Test Method 8260B with selected ion monitoring.

Analytical results for the site-related CVOCs and 1,4-dioxane are summarized in Table 2 for the monitoring well samples and Table 3 for the recovery well discharge. Copies of the certified laboratory analytical reports for the samples are included in Enclosure A. Historical (December 2016 to present) data for the monitoring well samples are provided in Table 4. The following provides an overview of the November 2019 sampling results; a more detailed evaluation of the data is presented in the 2019 System OM&M Report.

- For the shallow (unconfined) zone, samples of the untreated discharge from recovery wells RW-1S and RW-2S had total concentrations of detectable CVOCs + 1,4-dioxane of 799 µg/l and 474 µg/l, respectively (Figure 4). The results for these recovery wells showed a slight decrease compared to previous sampling data. As with the historical data, the total CVOC + 1,4-dioxane concentration in the RW-3S sample remained lower relative to the other shallow recovery wells. Only 1,4-dioxane was detected at a concentration above the Site Groundwater Cleanup Standards in the RW-3S discharge, and this level was just slightly above the applicable criterion of 15 µg/l. The CVOC and 1,4-dioxane concentrations in the groundwater samples from the shallow zone monitoring wells are similar to levels detected in the May 2019 samples. The only exception was a noticeable decrease in the 1,4-dioxane concentration in the MW-16 sample (Figure 5).
- In the deep recovery well samples, 1,1-DCE and 1,4-dioxane in the untreated water remain at concentrations above the Groundwater Cleanup Standards (Table 3). As with recent data, the sample results indicate higher levels of chlorinated CVOCs (1,1,1-trichloroethane and degradation products) in the untreated discharge from well RW-1D (300 µg/l) in the southwestern portion of the Site compared to RW-2D (177.5 µg/l) located near the southeastern corner. The 1,4-dioxane concentrations are generally similar to the November 2019 deep recovery well samples. In the deep monitoring well samples, the chlorinated VOC and 1,4-dioxane concentrations for the November 2019 samples are generally similar to levels detected in the May 2019 samples (Figure 6). The presence of constituent concentrations below the applicable cleanup levels in the MW-21D, MW-22D, and MW-40D samples indicates a reduction in the width of the groundwater contaminant plume in the confined portion of the aquifer in the southern part of the Site.

## 2.0 PLANNED ONSITE ACTIVITIES FOR THE FIRST QUARTER OF 2020

- As indicated in Section 1.1, install a replacement anti-siphon valve for the caustic feed tubing for the System. (This work was completed early the week of January 6<sup>th</sup>, 2020.) After installing the new valve, resume operation and maintenance activities for the hydraulic containment system and collect operational data for inclusion in future operation, maintenance, and monitoring reports.
- Conduct the required effluent monitoring and monthly reporting pursuant to the Discharge Permit.

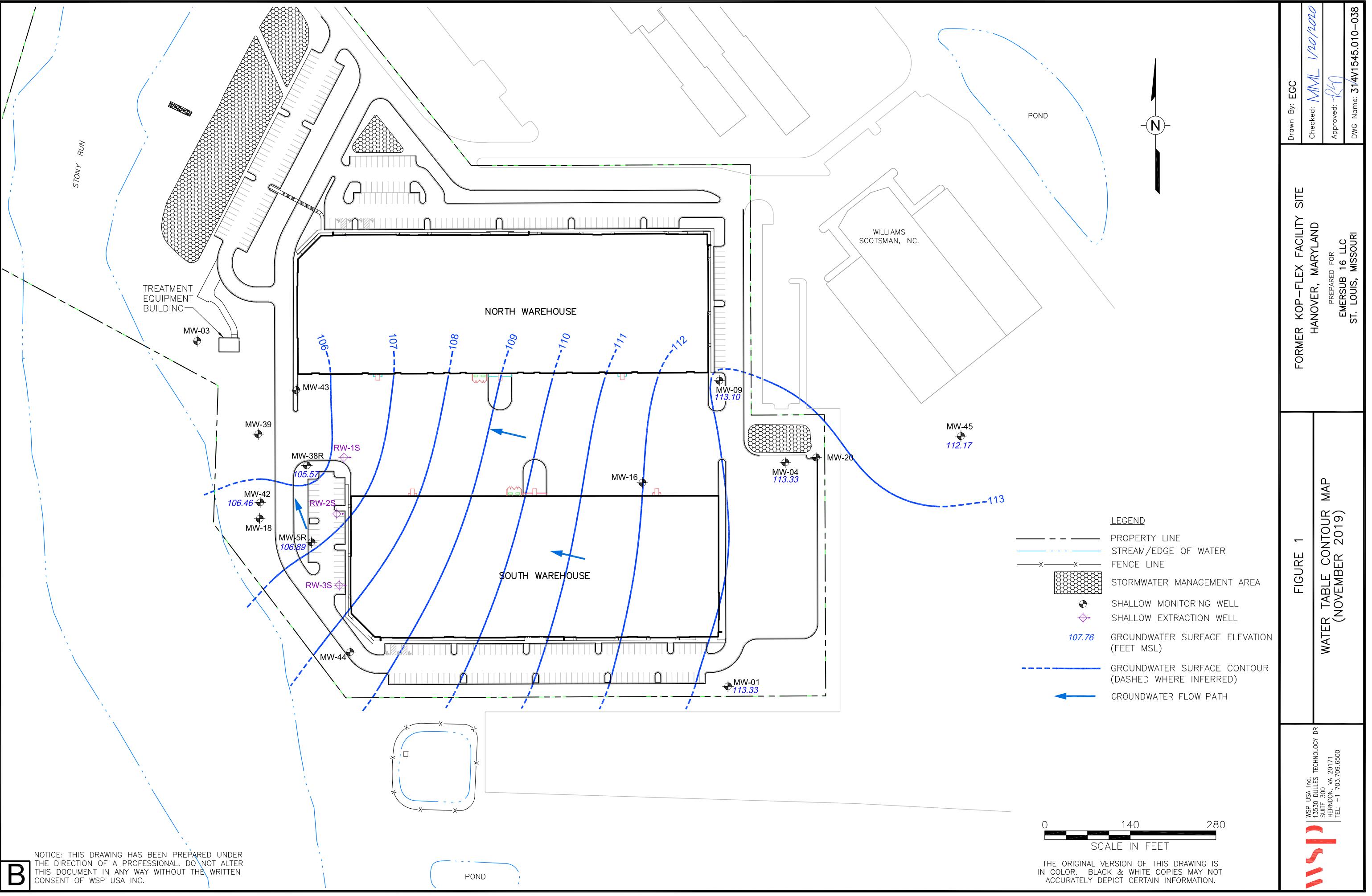


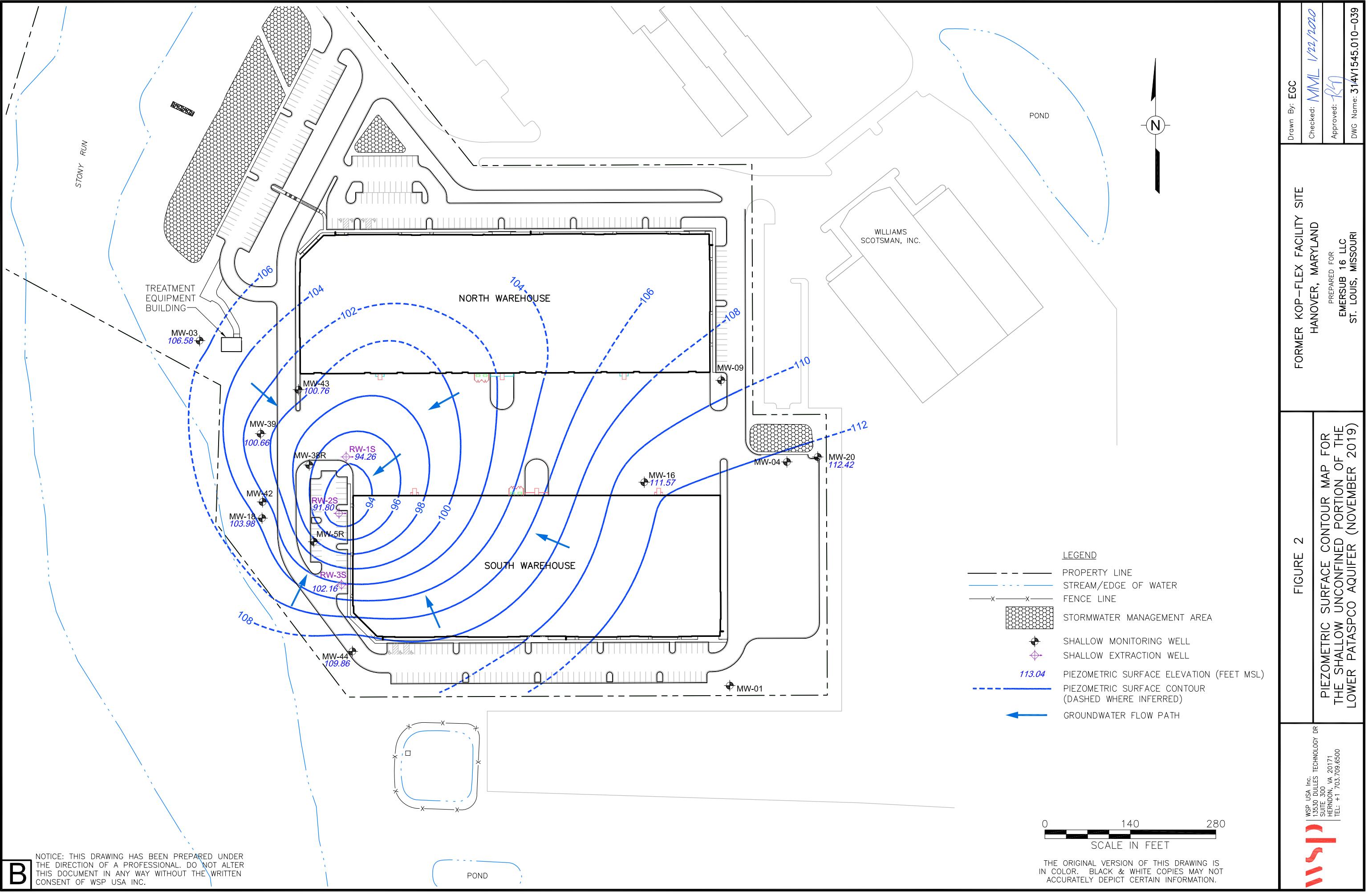
- Submit the semi-annual (July 2019 – December 2019) water withdrawal report to MDE pursuant to the Water Appropriation and Use Permit No. AA2004G016(02) for the System.
- Perform *ex-situ* cleaning of the specialty resin using a heated caustic solution to remove the organic foulants and restore the adsorption capacity of the resin material for 1,4-dioxane.
- Submit the 2019 OM&M Report for the hydraulic containment system to EPA and MDE.
- Report the findings of the November 2019 engineering controls inspections to EPA and MDE pursuant to the revised URIP.

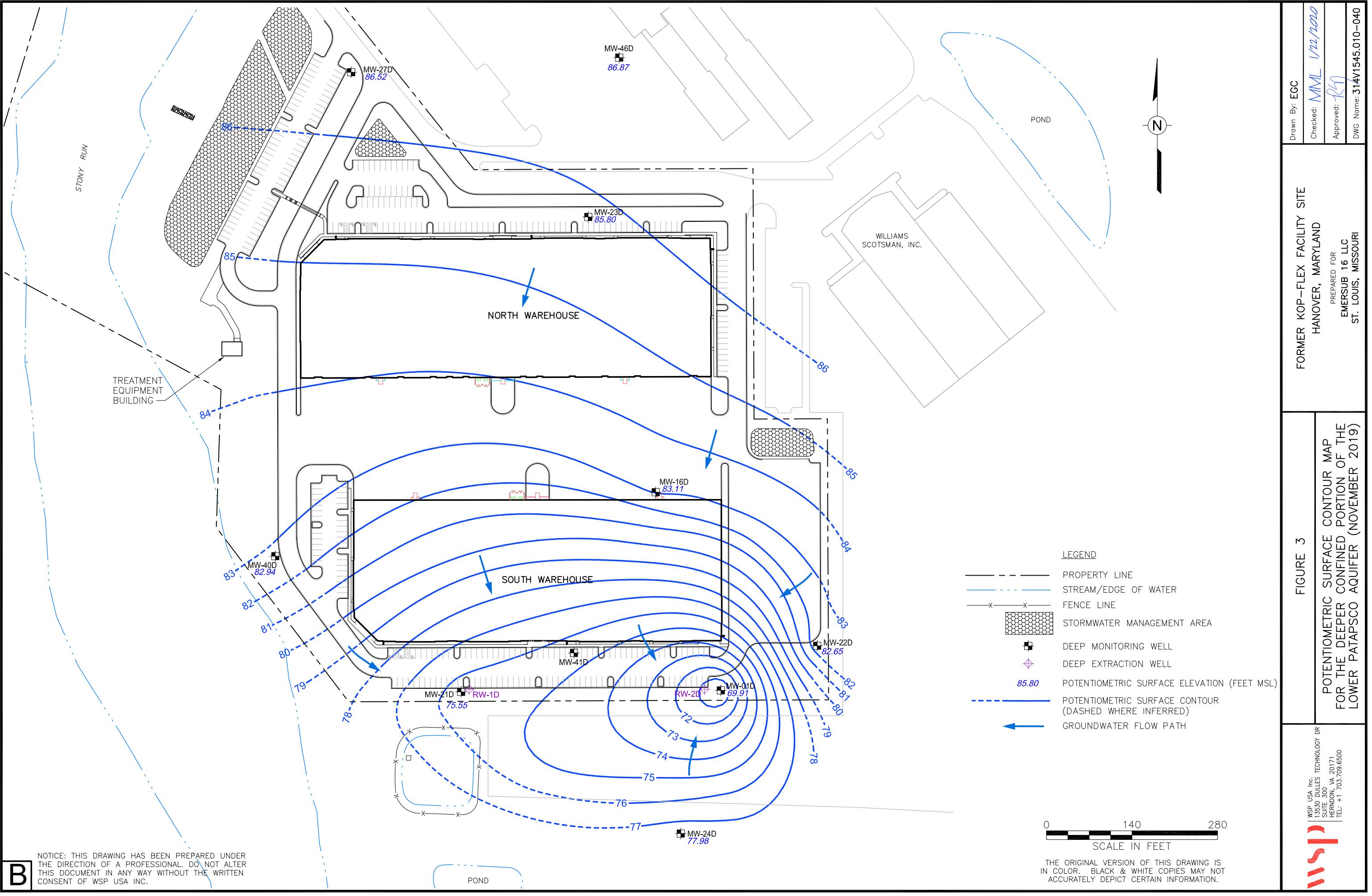
### 3.0 KEY PERSONNEL/FACILITY CHANGES

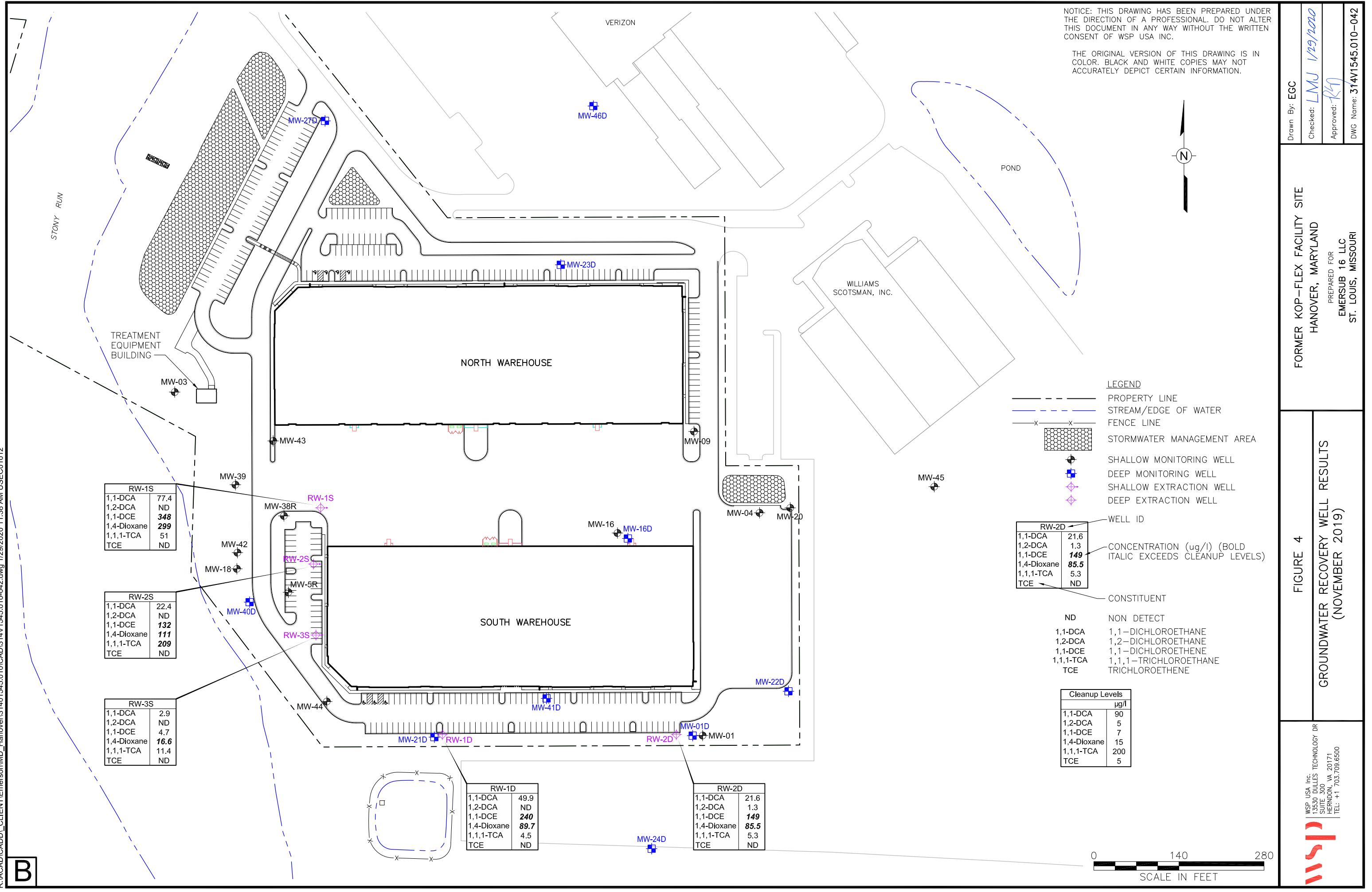
During the reporting period, the name of WSP's alternate Project Coordinator changed from Lisa Bryda to Lisa Kelly. There were no other changes to either key project personnel or conditions relevant to the performance of the ongoing work at the site.

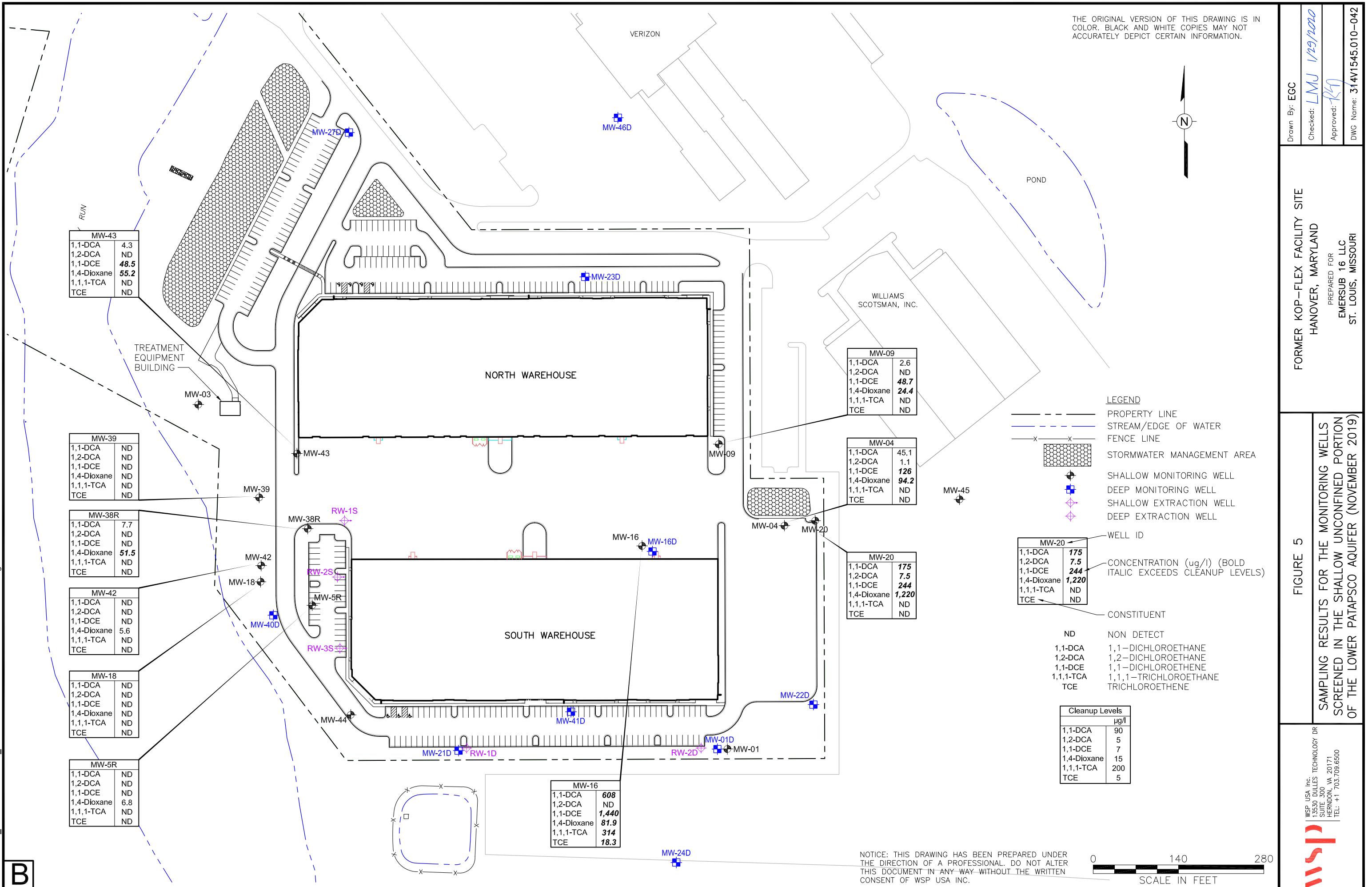
## FIGURES

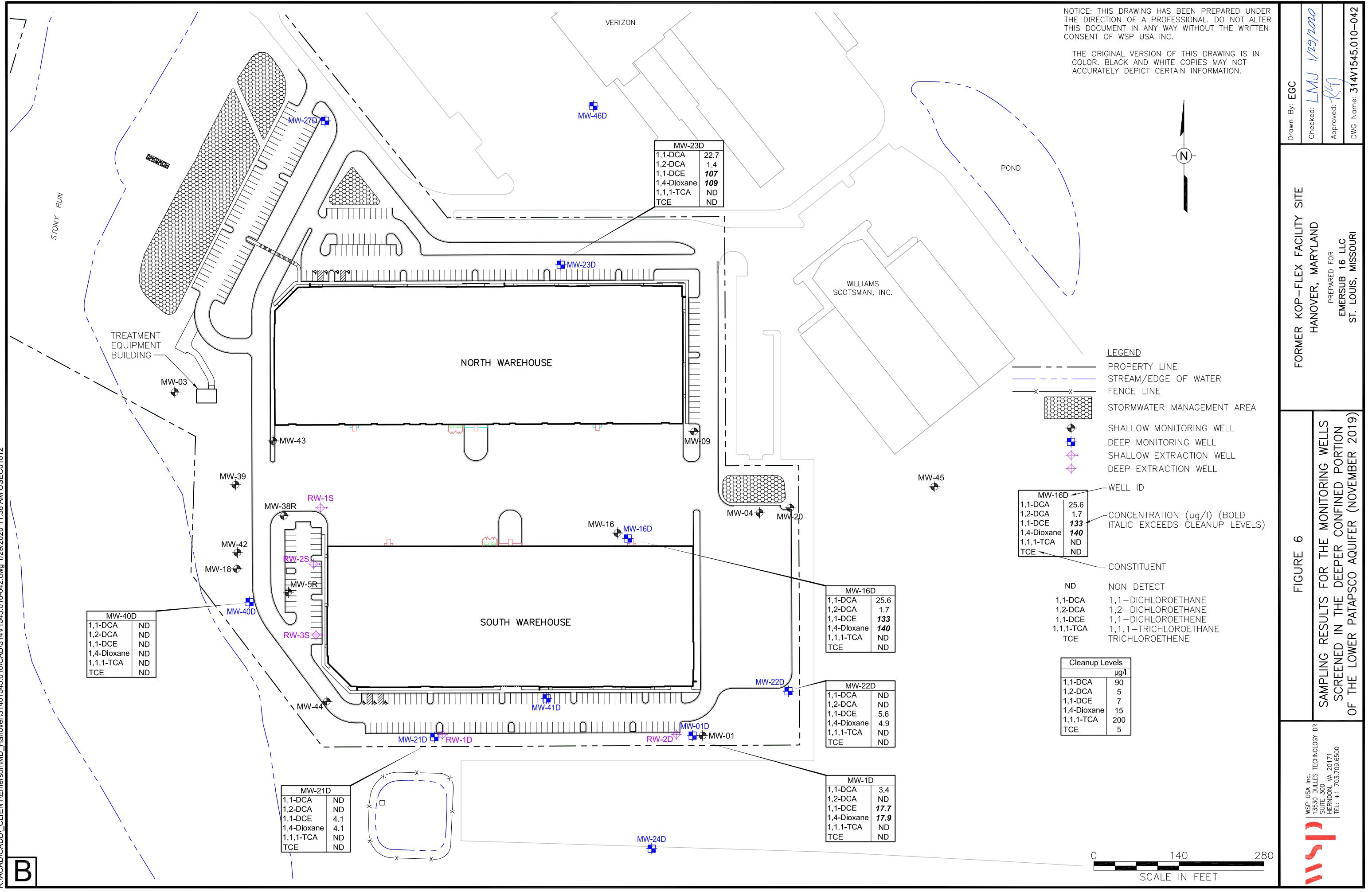












## TABLES

Table 1

**Historical Water Level Measurements in  
ONsite Monitoring Wells and Recovery Well Piezometers  
Former Kop-Flex Facility Site  
Hanover, Maryland  
(December 2016 to November 2019) (a)**

Well ID	Zone	TOC elevation	12/7/2016 (b)		2/1/2017 (b)		3/21/2017		4/7/2017		4/10/2017		4/13/2017	
			Depth to Water	Groundwater Elevation										
MW-01	Shallow	129.8	NM	-	15.98	113.82	16.16	113.64	15.93	113.87	15.95	113.85	15.94	113.86
MW-03	Shallow	113.6	6.78	106.82	6.83	106.77	6.79	106.81	6.41	107.19	6.76	106.84	6.91	106.69
MW-04	Shallow	124.4	12.28	112.12	11.14	113.26	11.17	113.23	11.05	113.35	11.09	113.31	11.06	113.34
MW-5R	Shallow	123.5	15.87	107.63	13.49	110.01	15.98	107.52	16.15	107.35	16.38	107.12	16.45	107.05
MW-09	Shallow	125.1	10.84	114.26	11.30	113.80	11.51	113.59	11.41	113.69	11.41	113.69	11.51	113.59
MW-16	Shallow	124.0	10.92	113.08	11.12	112.88	11.66	112.34	11.74	112.26	11.81	112.19	11.82	112.18
MW-18	Shallow	125.1	20.77	104.33	20.84	104.26	22.85	102.25	22.85	102.25	23.11	101.99	23.18	101.92
MW-20	Shallow	125.4	NM	-	12.24	113.16	12.5	112.90	12.33	113.07	12.31	113.09	12.3	113.10
MW-38R	Shallow	125.4	15.58	109.82	15.76	109.64	19.64	105.76	19.6	105.80	20.81	104.59	19.81	105.59
MW-39	Shallow	124.6	NM	-	20.96	103.64	22.64	101.96	22.55	102.05	21.86	102.74	23	101.60
MW-42	Shallow	125.9	16.18	109.72	16.26	109.64	19.28	106.62	19.33	106.57	19.52	106.38	19.49	106.41
MW-43	Shallow	122.8	19.25	103.55	19.31	103.49	20.68	102.12	20.31	102.49	20.61	102.19	21.81	100.99
MW-44	Shallow	127.1	14.93	112.17	15.25	111.85	17.7	109.40	17.08	110.02	17.18	109.92	17.35	109.75
MW-45	Shallow	126.7	NM	-	NM	-	14.1	112.62	13.85	112.87	13.85	112.87	13.85	112.87
RW-1S	Shallow	122.9	12.96	109.94	13.17	109.73	12.96	109.94	20.36	102.54	20.6	102.30	20.56	102.34
RW-2S	Shallow	123.5	14.12	109.38	14.02	109.48	28.55	94.95	28.88	94.62	29.81	93.69	29	94.50
RW-3S	Shallow	125.4	14.29	111.11	14.24	111.16	20.34	105.06	23.49	101.91	23.59	101.81	23.69	101.71
MW-1D	Deep	129.4	42.81	86.59	42.22	87.18	56.15	73.25	56.06	73.34	56.22	73.18	56.44	72.96
MW-16D	Deep	124.1	34.91	89.19	34.72	89.38	37.55	86.55	37.6	86.50	38.02	86.08	38.1	86.00
MW-21D	Deep	126.3	37.8	88.50	37.59	88.71	47.12	79.18	47.26	79.04	47.57	78.73	47.61	78.69
MW-22D	Deep	128.9	40.78	88.07	40.49	88.36	43.28	85.57	43.3	85.55	43.59	85.26	43.76	85.09
MW-23D	Deep	125.2	35.14	90.06	34.74	90.46	36.33	88.87	36.29	88.91	36.72	88.48	36.81	88.39
MW-24D	Deep	129.1	46.3	82.80	45.73	83.37	47.44	81.66	47.71	81.39	48	81.10	48.16	80.94
MW-27D	Deep	117.2	29.66	87.54	26.78	90.42	27.73	89.47	27.68	89.52	28.18	89.02	28.3	88.90
MW-40D	Deep	124.1	35.14	88.96	34.94	89.16	37.19	86.91	37.51	86.59	37.98	86.12	37.98	86.12
MW-41D	Deep	127.1	41.98	85.12	41.44	85.66	44.00	83.10	44.06	83.04	44.48	82.62	44.56	82.54
MW-46D	Deep	124.8	NM	-										
RW-1D	Deep	126.9	38.53	88.37	38.19	88.71	58.69	68.21	59.02	67.88	59.06	67.84	59.02	67.88
RW-2D	Deep	127.4	42.31	85.09	41.62	85.78	68.82	58.58	68.51	58.89	68.39	59.01	68.78	58.62

a/ Vertical datum is NAVD-88

NM = not measured

TOC = top of casing

NA = not available because the well had not been installed

Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.

Continuous pumping of the groundwater recovery well system started on March 29, 2017.

Water levels from both shallow and deep recoverys were measured in piezometers co-located with the wells.

b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 1

**Historical Water Level Measurements in  
ONsite Monitoring Wells and Recovery Well Piezometers  
Former Kop-Flex Facility Site  
Hanover, Maryland  
(December 2016 to November 2019) (a)**

Well ID	Zone	TOC elevation	4/17/2017		5/1/2017		5/8/2017		8/31/2017		10/25/2017	
			Depth to Water	Groundwater Elevation								
MW-01	Shallow	129.8	15.90	113.90	15.92	113.88	15.81	113.99	15.49	114.31	NA	NA
MW-03	Shallow	113.6	6.90	106.70	6.96	106.64	6.87	106.73	7.59	106.01	NA	NA
MW-04	Shallow	124.4	11.13	113.27	10.95	113.45	10.91	113.49	10.66	113.74	NA	NA
MW-5R	Shallow	123.5	16.47	107.03	16.60	106.90	16.60	106.90	16.90	106.60	NA	NA
MW-09	Shallow	125.1	11.48	113.62	11.41	113.69	11.34	113.76	11.09	114.01	NA	NA
MW-16	Shallow	124.0	12.08	111.92	11.99	112.01	11.81	112.19	11.90	112.10	NA	NA
MW-18	Shallow	125.1	23.19	101.91	23.30	101.80	23.28	101.82	24.63	100.47	NA	NA
MW-20	Shallow	125.4	13.38	112.02	13.01	112.39	12.24	113.16	12.39	113.01	NA	NA
MW-38R	Shallow	125.4	19.84	105.56	19.94	105.46	19.96	105.44	20.16	105.24	NA	NA
MW-39	Shallow	124.6	23.01	101.59	23.05	101.55	23.00	101.60	24.51	100.09	NA	NA
MW-42	Shallow	125.9	19.55	106.35	19.68	106.22	19.67	106.23	19.95	105.95	NA	NA
MW-43	Shallow	122.8	20.92	101.88	21.11	101.69	20.90	101.90	21.73	101.07	NA	NA
MW-44	Shallow	127.1	17.23	109.87	17.31	109.79	17.27	109.83	17.18	109.92	NA	NA
MW-45	Shallow	126.7	13.75	112.97	13.67	113.05	13.60	113.12	13.20	113.52	NA	NA
RW-1S	Shallow	122.9	20.60	102.30	20.80	102.10	20.79	102.11	21.49	101.41	NA	NA
RW-2S	Shallow	123.5	29.14	94.36	29.61	93.89	29.74	93.76	32.10	91.40	NA	NA
RW-3S	Shallow	125.4	23.73	101.67	24.32	101.08	24.46	100.94	26.20	99.20	NA	NA
MW-1D	Deep	129.4	56.37	73.03	56.40	73.00	56.29	73.11	56.70	72.70	58.17	71.23
MW-16D	Deep	124.1	37.94	86.16	37.98	86.12	38.08	86.02	41.1	83.00	40.71	83.39
MW-21D	Deep	126.3	47.58	78.72	47.54	78.76	47.61	78.69	56.7	69.60	50.61	75.69
MW-22D	Deep	128.9	43.73	85.12	43.82	85.03	43.81	85.04	46.71	82.14	46.74	82.11
MW-23D	Deep	125.2	36.61	88.59	36.71	88.49	36.77	88.43	39.9	85.30	39.21	85.99
MW-24D	Deep	129.1	48.29	80.81	48.35	80.75	48.37	80.73	55.82	73.28	52.15	76.95
MW-27D	Deep	117.2	28.03	89.17	28.21	88.99	28.21	88.99	31.11	86.09	30.52	86.68
MW-40D	Deep	124.1	37.85	86.25	38.01	86.09	38.04	86.06	41.00	83.10	40.75	83.35
MW-41D	Deep	127.1	44.43	82.67	44.61	82.49	44.62	82.48	49.18	77.92	47.94	79.16
MW-46D	Deep	124.8	NM	-								
RW-1D	Deep	126.9	59.26	67.64	58.88	68.02	58.99	67.91	60.23	66.67	62.62	64.28
RW-2D	Deep	127.4	68.63	58.77	68.70	58.70	68.44	58.96	70.11	57.29	68.90	58.50

a/ Vertical datum is NAVD-88

NM = not measured

TOC = top of casing

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Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.

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Well ID	Zone	TOC elevation	11/14/2017		5/30/2018		11/7/2018		5/21/2019		11/19/2019	
			Depth to Water	Groundwater Elevation								
MW-01	Shallow	129.8	14.17	115.63	15.52	114.28	13.99	115.81	13.98	115.82	16.47	113.33
MW-03	Shallow	113.6	7.27	106.33	7.17	106.43	6.43	107.17	7.08	106.52	7.02	106.58
MW-04	Shallow	124.4	10.97	113.43	10.19	114.21	9.16	115.24	8.80	115.60	11.07	113.33
MW-5R	Shallow	123.5	16.78	106.72	15.89	107.61	15.51	107.99	15.74	107.76	16.61	106.89
MW-09	Shallow	125.1	NA	NA	10.78	114.32	9.16	115.94	9.61	115.49	12.00	113.10
MW-16	Shallow	124.0	12.00	112.00	11.76	112.24	10.96	113.04	9.37	114.63	12.43	111.57
MW-18	Shallow	125.1	24.41	100.69	23.80	101.30	23.13	101.97	22.97	102.13	21.12	103.98
MW-20	Shallow	125.4	11.98	113.42	12.15	113.25	11.74	113.66	10.64	114.76	12.98	112.42
MW-38R	Shallow	125.4	19.93	105.47	19.35	106.05	18.67	106.73	19.13	106.27	19.83	105.57
MW-39	Shallow	124.6	23.93	100.67	23.72	100.88	23.09	101.51	23.00	101.60	23.94	100.66
MW-42	Shallow	125.9	19.82	106.08	19.16	106.74	18.55	107.35	18.91	106.99	19.44	106.46
MW-43	Shallow	122.8	21.66	101.14	20.47	102.33	20.60	102.20	21.46	101.34	22.04	100.76
MW-44	Shallow	127.1	17.00	110.10	16.32	110.78	15.78	111.32	15.91	111.19	17.24	109.86
MW-45	Shallow	126.7	13.80	112.92	12.98	113.74	12.00	114.72	11.75	114.97	14.55	112.17
RW-1S	Shallow	122.9	21.98	100.92	22.88	100.02	23.97	98.93	26.42	96.48	28.64	94.26
RW-2S	Shallow	123.5	30.76	92.74	28.37	95.13	27.48	96.02	31.16	92.34	31.70	91.80
RW-3S	Shallow	125.4	28.47	96.93	26.91	98.49	24.39	101.01	22.10	103.30	23.24	102.16
MW-1D	Deep	129.4	58.09	71.31	58.03	71.37	57.22	72.18	56.55	72.85	59.49	69.91
MW-16D	Deep	124.1	40.63	83.47	40.37	83.73	39.33	84.77	38.30	85.80	40.99	83.11
MW-21D	Deep	126.3	50.53	75.77	50.38	75.92	49.61	76.69	48.38	77.92	50.75	75.55
MW-22D	Deep	128.9	46.25	82.60	46.30	82.55	35.31	93.54	44.02	84.83	46.20	82.65
MW-23D	Deep	125.2	39.04	86.16	38.87	86.33	37.72	87.48	36.88	88.32	39.40	85.80
MW-24D	Deep	129.1	51.99	77.11	50.94	78.16	50.72	78.38	49.67	79.43	51.12	77.98
MW-27D	Deep	117.2	30.34	86.86	30.20	87.00	29.17	88.03	28.15	89.05	30.68	86.52
MW-40D	Deep	124.1	40.50	83.60	40.44	83.66	39.60	84.50	38.50	85.60	41.16	82.94
MW-41D	Deep	127.1	47.71	79.39	47.56	79.54	46.56	80.54	45.42	81.68	48.50	78.60
MW-46D	Deep	124.8	NM	-	37.37	87.40	32.65	92.12	35.47	89.30	37.90	86.87
RW-1D	Deep	126.9	63.62	63.28	62.75	64.15	62.97	63.93	62.44	64.46	64.86	62.04
RW-2D	Deep	127.4	68.95	58.45	69.21	58.19	68.34	59.06	68.19	59.21	71.36	56.04

a/ Vertical datum is NAVD-88

NM = not measured

TOC = top of casing

NA = not available because the well had not been installed

Light gray shading denotes wells screened in the shallow (unconfined) zone; blue shading denotes wells screened in the deep (confined) zone.

Continuous pumping of the groundwater recovery well system started on March 29, 2017.

Water levels from both shallow and deep recoverys were measured in piezometers co-located with the wells.

b/ Water level measurements representative of non-pumping conditions in the aquifer system.

Table 2

**November 2019 Monitoring Well Sampling Results**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland (a)**

Well ID:	MW-04	MW-5R	MW-09	MW-16	MW-18	MW-20	MW-38R	MW-39	MW-42	MW-43
Parameters	Groundwater Cleanup Standards (µg/L) (b)									
Chloroethane	3.6		1 U	1 U	1 U	<b>23.4</b>	1 U	2 U	1 U	1 U
1,1-Dichloroethane	90		45.1	1 U	2.6	<b>608</b>	1 U	<b>175</b>	7.7	1 U
1,2-Dichloroethane	5		1.1	1 U	1 U	10 U	1 U	<b>7.5</b>	1 U	1 U
1,1-Dichloroethene	7		<b>126</b>	1 U	<b>48.7</b>	<b>1,440</b>	1 U	<b>244</b>	1 U	1 U
1,4-Dioxane	15 (c)		<b>94.2</b>	6.8	<b>24.4</b>	<b>81.9</b>	2 U	<b>1,220</b>	<b>51.5</b>	2 U
Methyl tert-butyl ether	20		1 U	1 U	1 U	10 U	1 U	2 U	1 U	1 U
1,1,1-Trichloroethane	200		1 U	1 U	1 U	<b>314</b>	1 U	2 U	1 U	1 U
Trichloroethylene	5		1 U	1 U	1 U	<b>18.3</b>	1 U	2 U	1 U	1 U

a/ U = not detected above the method detection limit; NS = not sampled

**Bolded values indicate an exceedance 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/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

d/ Field duplicate of the MW-16D well sample

**Table 2**

**November 2019 Monitoring Well Sampling Results**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland (a)**

Well ID:	Deep Wells						
	MW-1D	MW-16D	DUP111919 (d)	MW-21D	MW-22D	MW-23D	MW-40D
<b>Parameters</b>		<b>Groundwater Cleanup Standards (µg/L) (b)</b>					
Chloroethane	3.6		1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	90		3.4	25.6	26.6	1 U	22.7
1,2-Dichloroethane	5		1 U	1.7	1.8	1 U	1.4
1,1-Dichloroethene	7		<b>17.7</b>	<b>133</b>	<b>142</b>	4.1	<b>107</b>
1,4-Dioxane	15 (c)		<b>17.9</b>	<b>140</b>	<b>119</b>	4.1	<b>109</b>
Methyl tert-butyl ether	20		1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U
Trichloroethene	5		1 U	1 U	1 U	1 U	1 U

a/ U = not detected above the method detection limit; NS = not sampled

**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/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

d/ Field duplicate of the MW-16D well sample

**Table 3**

**November 2019 Recovery Well Sampling Results**  
**Former Kop-Flex Facility**  
**Hanover, Maryland (a)**

Parameters	Well ID:	Shallow Wells			Deep Wells	
		RW-1S	RW-2S	RW-3S	RW-1D	RW-2D
<b>Groundwater Cleanup Standards (µg/L) (b)</b>						
<b>VOCs</b>						
Chloroethane	3.6	<b>19.3</b>	2 U	1 U	5.5	1 U
1,1-Dichloroethane	90	77.4	22.4	2.9	49.9	21.6
1,2-Dichloroethane	5	2.5 U	2 U	1 U	2 U	1.3
1,1-Dichloroethene	7	<b>348</b>	<b>132</b>	4.7	<b>240</b>	<b>149</b>
1,4-Dioxane	15	<b>299</b>	<b>111</b>	<b>16.6</b>	<b>89.7</b>	<b>85.5</b>
1,1,1-Trichloroethane	200	51.0	<b>209</b>	11.4	4.5	5.3
Trichloroethene	5	2.5 U	2 U	1 U	2 U	1 U
Vinyl chloride	2	<b>4.4</b>	2 U	1 U	2 U	1 U

a/ U = not detected above the method detection limit

**Bolded values indicate an exceedance of the Groundwater Quality Standards**

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

b/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

Table 4

**Historical Monitoring Well Sampling Results**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland**  
**(December 2016 - November 2019) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
<b>Groundwater Cleanup Standards (b)</b>		3.6	90	5	7	70	15 (c)	5	5	200	5	5	2
<b>MW-03</b>	12/8/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	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	1.0 U	1.0 U
	5/30/2018	1.0 U	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	1.0 U	1.0 U
	5/21/2019	1.0 U	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	1.0 U	1.0 U
<b>MW-04</b>	12/7/2016	10.0 U	<b>259</b>	10.0 U	<b>1,020</b>	10.0 U	<b>576</b>	20.0 U	4.0 U	31.7	10.0 U	10.0 U	10.0 U
	5/2/2017	4.0 U	<b>103</b>	4.0 U	<b>459</b>	4.0 U	<b>252</b>	8.0 U	4.0 U	13.0	4.0 U	4.0 U	4.0 U
	11/15/2017	5.0 U	29.2	1.0 J	<b>151</b>	1.0 U	<b>121</b>	<b>10.5</b>	0.687 J	4.3	1.0 U	1.4	1.0 U
	5/30/2018	1.0 U	33.3	1.0 U	<b>153</b>	1.0 U	<b>92.7</b>	2.0 U	1.0 U	4.0	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	23.3	1.0 U	<b>89.9</b>	1.0 U	1.0 U	2.0 U	1.0 U	1.6	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	57.7	1.1	<b>142</b>	1.0 U	<b>111</b>	2.0 U	1.0 U	1.7	1.0 U	1.1	1.0 U
	11/19/2019	1.0 U	45.1	1.1	<b>126</b>	1.0 U	<b>94.2</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-5R</b>	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	<b>16.5</b>	2.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.4	1.0 U	1.4	1.0 U	<b>16.5</b>	2.0 U	1.0 U	2.7	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.6	1.0 U	2.5	1.0 U	11.0	<b>10.2</b>	1.0 U	1.7	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.8	1.0 U	2.7	1.0 U	11.5	2.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.3	1.0 U	2.0 U	2.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.6	2.0 U	1.0 U	1.9	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-09</b>	12/8/2016	1.0 U	4.5	1.0 U	<b>104</b>	1.0 U	<b>95.5</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	2.9	1.0 U	<b>63.8</b>	1.0 U	<b>20.8</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	3.1	0.4 J	<b>60.2</b>	1.0 U	<b>32.4</b>	5.0 U	1.0 U	0.7 J	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	2.2	1.0 U	<b>49.2</b>	1.0 U	<b>23.4</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	4.5	1.0 U	<b>75.9</b>	1.0 U	<b>37.4</b>	2.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	3.6	1.0 U	<b>70.8</b>	1.0 U	<b>32.8</b>	2.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	2.6	1.0 U	<b>48.7</b>	1.0 U	<b>24.4</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 4

**Historical Monitoring Well Sampling Results**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland**  
**(December 2016 - November 2019) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
	Groundwater Cleanup Standards (b)	3.6	90	5	7	70	15 (c)	5	5	200	5	5	2
<b>MW-16</b>	12/8/2016 5/2/2017 11/15/2017 5/30/2018 11/7/2018 5/22/2019 11/19/2019	200 U 225 732 249 275 10 U 23.4	6,420 7,910 7,110 6,250 7,360 343 608	200 U 100 U 22 50 U 50 U 10 U 10 U	26,200 10,500 7,740 4,690 7,800 1,160 1,440	200 U 100 U 46 50 U 50 U 10 U 10 U	1,450 971 836 636 866 1,230 81.9	400 U 200 U 11 100 U 100 U 50 U 50 U	100 U 100 U 18.4 50 U 50 U 216 10 U	4,390 8,930 5,590 7,360 6,420 216 314	200 U 100 U 1.0 U 50 U 50 U 10 U 10 U	200 U 100 U 69 50 U 50 U 13.7 18.3	200 U 100 U 19 50 U 50 U 10 U 10 U
<b>MW-18</b>	12/7/2016 5/1/2017 11/15/2017 5/30/2018 11/7/2018 5/21/2019 11/19/2019	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	2.0 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 24.9 2.0 U 2.0 U 2.0 U 2.0 U	2.0 U 2.0 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 1.0 U 1.0 U 1.0 U 1.0 U	
<b>MW-20</b>	12/9/2016 5/2/2017 11/15/2017 5/30/2018 11/7/2018 5/21/2019 11/19/2019	2.0 U 2.0 U 5.0 U 2.0 U 2.5 U 2.0 U 2.0 U	99.7 161 136 115 145 157 175	5.1 7.3 5.7 5.5 6.3 6.5 7.5	173 286 223 205 233 226 244	2.0 U 2.0 U 1.4 2.0 U 2.5 U 2.0 U 2.0 U	767 967 969 966 986 1,620 1,220	4.0 U 4.0 U 5.0 U 4.0 U 5.0 U 4.0 U 4.0 U	2.0 U 2.0 U 1.0 U 2.0 U 2.5 U 2.0 U 2.0 U	2.0 U 2.0 U 1.0 U 2.0 U 2.5 U 2.0 U 2.0 U	2.0 U 2.0 U 1.9 2.0 U 2.5 U 2.0 U 2.1	2.0 U 2.0 U 1.0 U 2.0 U 2.5 U 2.0 U 2.0 U	2.0 U 2.0 U 1.0 U 2.0 U 2.5 U 2.0 U 2.0 U
<b>MW-38R</b>	12/9/2016 5/1/2017 11/15/2017 5/30/2018 11/7/2018 5/21/2019 11/19/2019	1.0 U 1.0 U 5.0 U 1.0 U 1.0 U 1.0 U 1.0 U	3.8 6.0 8.3 4.3 6.9 4.7 7.7	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 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	18.3 42.6 62.5 40.7 39.4 43.2 51.5	2.0 U 2.0 U 8.1 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 1.0 U 1.0 U 1.0 U 1.0 U	

Table 4

**Historical Monitoring Well Sampling Results**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland**  
**(December 2016 - November 2019) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
	Groundwater Cleanup Standards (b)	3.6	90	5	7	70	15 (c)	5	5	200	5	5	2
<b>MW-39</b>	12/7/2016	1.0 U	1.0 U	1.0 U	1.7	1.0 U	2.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.1	1.0 U	3.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.0 U	1.0 U	0.6 J	1.0 U	2.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	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	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-42</b>	12/7/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	19.3	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.3	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-43</b>	12/7/2016	2.0 U	15.9	2.1	171	2.0 U	237	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	5/1/2017	2.0 U	21.3	2.1	177	2.0 U	206	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	15.9	1.3	159	1.0 U	165	5.0 U	1.0 U	1.2	1.0 U	1.0 U	1.0 U
	5/30/2018	2.0 U	5.9	1.0 U	68	1.0 U	57.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	13.8	1.2	118	1.0 U	107	2.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U
	5/21/2019	1.0 U	5.2	1.0 U	53.9	1.0 U	52.0	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	4.3	1.0 U	48.5	1.0 U	55.2	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-44</b>	12/7/2016	1.0 U	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	1.0 U	1.0 U
	5/1/2017	1.0 U	6.6	1.0 U	5.9	1.0 U	49.1	2.0 U	1.0 U	27.7	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.4	1.0 U	1.4	1.0 U	8.4	2.0 U	1.0 U	4.9	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	14.9	1.0 U	22.4	1.0 U	64.4	5.0 U	1.0 U	74.3	1.0 U	1.0 U	1.0 U

Table 4

**Historical Monitoring Well Sampling Results**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland**  
**(December 2016 - November 2019) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
<b>Groundwater Cleanup Standards (b)</b>		3.6	90	5	7	70	15 (c)	5	5	200	5	5	2
<b>MW-1D</b>	1/2/2017	2.0 U	72	4.7	<b>375</b>	2.0 U	<b>236</b>	4.0 U	2.5 U	37.5	2.0 U	2.0 U	2.0 U
	5/3/2017	2.5 U	<b>105</b>	<b>5.7</b>	<b>407</b>	2.5 U	<b>329</b>	5.0 U	2.5 U	37.1	2.5 U	2.5 U	2.5 U
	11/15/2017	5.0 U	80	3.8	<b>277</b>	0.6 J	<b>243</b>	5.0 U	0.519 J	29.8	0.8 J	1.7	1 U
	5/30/2018	1.0 U	14.9	1.0 U	<b>71.4</b>	1.0 U	<b>64.4</b>	2.0 U	1.0 U	5.3	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	7.1	1.0 U	<b>38.8</b>	1.0 U	2.0 U	2.0 U	1.0 U	3.3	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	2.1	1.0 U	<b>13.7</b>	1.0 U	12.8	2.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	3.4	1.0 U	<b>17.7</b>	1.0 U	<b>17.9</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-16D</b>	12/8/2016	2.0 U	56.6	2.9	<b>254</b>	2.0 U	<b>202</b>	4.0 U	2.0 U	21	2.0 U	2.0 U	2.0 U
	5/2/2017	2.0 U	43.7	2.9	<b>235</b>	2.0 U	<b>182</b>	4.0 U	2.0 U	16.4	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	29.7	1.9	<b>179</b>	0.3 J	<b>192</b>	<b>10.0</b>	1.0 U	15.1	0.5 J	0.9 J	1.0 U
	5/30/2018	1.0 U	26.4	1.6	<b>180</b>	1.0 U	<b>153</b>	2.0 U	1.0 U	10.3	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	27.5	1.8	<b>161</b>	1.0 U	<b>158</b>	2.0 U	1.0 U	12.5	1.0 U	1.0 U	1.0 U
	5/22/2019	1.0 U	28.5	2.1	<b>172</b>	1.0 U	<b>148</b>	2.0 U	1.0 U	14.5	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	25.6	1.7	<b>133</b>	1.0 U	<b>140</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-21D</b>	12/16/2016	1.0 U	2.6	1.0 U	<b>23.4</b>	1.0 U	<b>18.6</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	6.9	1.4	<b>111</b>	1.0 U	<b>57.5</b>	2.0 U	1.0 U	2.3	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	2.0	1.0 U	<b>14.4</b>	1.0 U	<b>18.5</b>	5.0 U	1.0 U	0.7 J	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0	1.0 U	<b>38.8</b>	1.0 U	<b>32.2</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	<b>30.0</b>	1.0 U	<b>18.0</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	<b>9.9</b>	1.0 U	8.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	4.1	1.0 U	4.1	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-22D</b>	12/7/2016	1.0 U	2.5	1.0 U	<b>31.5</b>	1.0 U	<b>24.5</b>	2.0 U	1.0 U	4.1	1.0 U	1.0 U	1.0 U
	5/2/2017	1.0 U	2.5	1.0 U	<b>36.9</b>	1.0 U	<b>24.6</b>	2.0 U	1.0 U	3.7	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	1.72	1.0 U	<b>24.4</b>	1.0 U	<b>19.6</b>	5.0 U	1.0 U	2.8	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	<b>13.1</b>	1.0 U	7.9	2.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	<b>9.7</b>	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	6.3	1.0 U	5.1	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	1.0 U	1.0 U	5.6	1.0 U	4.9	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 4

**Historical Monitoring Well Sampling Results**  
**Former Kop-Flex Facility Site**  
**Hanover, Maryland**  
**(December 2016 - November 2019) (a)**

Well ID	Sample Date	Chloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	1,4-Dioxane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Vinyl chloride
<b>Groundwater Cleanup Standards (b)</b>		3.6	90	5	7	70	15 (c)	5	5	200	5	5	2
<b>MW-23D</b>	1/2/2017	2.0 U	26.4	2.0 U	<b>140</b>	2.0 U	<b>151</b>	<b>8.3</b>	1.0 U	17.0	2.0 U	2.0 U	2.0 U
	5/1/2017	2.0 U	39.1	2.4	<b>208</b>	2.0 U	<b>177</b>	4.0 U	2.0 U	19.9	2.0 U	2.0 U	2.0 U
	11/15/2017	5.0 U	31.1	1.9	<b>179</b>	0.3 J	<b>158</b>	5.0 U	0.417 J	19.3	0.4 J	0.9 J	1.0 U
	5/30/2018	1.0 U	30.5	1.6	<b>172</b>	1.0 U	<b>148</b>	2.0 U	1.0 U	14.8	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	36.2	1.9	<b>185</b>	1.0 U	<b>146</b>	2.0 U	1.0 U	17.0	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	18.5	1.2	<b>96.4</b>	1.0 U	<b>70.7</b>	2.0 U	1.0 U	8.6	1.0 U	1.0 U	1.0 U
	11/19/2019	1.0 U	22.7	1.4	<b>107</b>	1.0 U	<b>109</b>	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
<b>MW-27D</b>	12/7/2016	1.0 U	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	1.0 U	1.0 U
	5/1/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.6	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	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	1.0 U	1.0 U
<b>MW-40D</b>	12/9/2016	1.0 U	2.9	1.0 U	<b>18.1</b>	1.0 U	9.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/1/2017	1.0 U	3.1	1.0 U	<b>17.4</b>	1.0 U	8.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/15/2017	5.0 U	0.9 J	1.0 U	5.2	1.0 U	5.2	<b>9.7</b>	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	2.9	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	11/7/2018	1.0 U	1.0 U	1.0 U	4.4	1.0 U	2.7	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	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	1.0 U	1.0 U
	11/19/2019	1.0 U	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	1.0 U	1.0 U
<b>MW-41D</b>	12/16/2016	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.8	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/17/2017	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.4	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/30/2018	1.0 U	1.0 U	1.0 U	1.1	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	5/21/2019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

a/ U = not detected above the method detection limit

**Bolded values indicate an exceedance of the Groundwater Quality Standards**

All 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/ Numeric cleanup standards from WSP's October 2, 2015, Response Action Plan, Revision 2.

**ENCLOSURE A – LABORATORY ANALYTICAL REPORTS, RECOVERY WELL AND  
MONITORING WELL SAMPLES (NOVEMBER 2019)**

## **RECOVERY WELLS**

December 05, 2019

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

RE: Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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: Former Kop Flex Facility  
Pace Project No.: 92454714

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**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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92454714001	RW-3S	Water	11/19/19 10:30	11/21/19 09:32
92454714002	RW-2S	Water	11/19/19 10:40	11/21/19 09:32
92454714003	RW-1S	Water	11/19/19 11:00	11/21/19 09:32
92454714004	RW-2D	Water	11/19/19 13:20	11/21/19 09:32
92454714005	RW-1D	Water	11/19/19 11:20	11/21/19 09:32

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## SAMPLE ANALYTE COUNT

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92454714001	RW-3S	EPA 8260B	DLK	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454714002	RW-2S	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454714003	RW-1S	EPA 8260B	DLK	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454714004	RW-2D	EPA 8260B	DLK	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454714005	RW-1D	EPA 8260B	DLK	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Sample: RW-3S	Lab ID: 92454714001	Collected: 11/19/19 10:30	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 14:32	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 14:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 14:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 14:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 14:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 14:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 14:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 14:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 14:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 14:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 14:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 14:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 14:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 14:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 14:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 14:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 14:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 14:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 14:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 14:32	75-71-8	L1
1,1-Dichloroethane	<b>2.9</b>	ug/L	1.0	1		11/27/19 14:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 14:32	107-06-2	
1,1-Dichloroethene	<b>4.7</b>	ug/L	1.0	1		11/27/19 14:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 14:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 14:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 14:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 14:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 14:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 14:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 14:32	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 14:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 14:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 14:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 14:32	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 14:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 14:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 14:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 14:32	127-18-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility

Pace Project No.: 92454714

Sample: RW-3S	Lab ID: 92454714001	Collected: 11/19/19 10:30	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 14:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:32	120-82-1	
1,1,1-Trichloroethane	<b>11.4</b>	ug/L	1.0	1		11/27/19 14:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 14:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 14:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 14:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 14:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 14:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 14:32	75-01-4	L1
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 14:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 14:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 14:32	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	102	%	70-130	1		11/27/19 14:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/27/19 14:32	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		11/27/19 14:32	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>16.6</b>	ug/L	2.0	1		11/22/19 19:38	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	50-150	1		11/22/19 19:38	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		11/22/19 19:38	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Sample: RW-2S	Lab ID: 92454714002	Collected: 11/19/19 10:40	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	50.0	2		12/03/19 22:23	67-64-1	
Benzene	ND	ug/L	2.0	2		12/03/19 22:23	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		12/03/19 22:23	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		12/03/19 22:23	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		12/03/19 22:23	75-27-4	
Bromoform	ND	ug/L	2.0	2		12/03/19 22:23	75-25-2	
Bromomethane	ND	ug/L	4.0	2		12/03/19 22:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		12/03/19 22:23	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		12/03/19 22:23	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		12/03/19 22:23	108-90-7	
Chloroethane	ND	ug/L	2.0	2		12/03/19 22:23	75-00-3	
Chloroform	ND	ug/L	10.0	2		12/03/19 22:23	67-66-3	
Chloromethane	ND	ug/L	2.0	2		12/03/19 22:23	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		12/03/19 22:23	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		12/03/19 22:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	2		12/03/19 22:23	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		12/03/19 22:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		12/03/19 22:23	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		12/03/19 22:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		12/03/19 22:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		12/03/19 22:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		12/03/19 22:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		12/03/19 22:23	75-71-8	
1,1-Dichloroethane	<b>22.4</b>	ug/L	2.0	2		12/03/19 22:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		12/03/19 22:23	107-06-2	
1,1-Dichloroethene	<b>132</b>	ug/L	2.0	2		12/03/19 22:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		12/03/19 22:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/03/19 22:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		12/03/19 22:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		12/03/19 22:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		12/03/19 22:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		12/03/19 22:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		12/03/19 22:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		12/03/19 22:23	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		12/03/19 22:23	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		12/03/19 22:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		12/03/19 22:23	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		12/03/19 22:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		12/03/19 22:23	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		12/03/19 22:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		12/03/19 22:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		12/03/19 22:23	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		12/03/19 22:23	91-20-3	
Styrene	ND	ug/L	2.0	2		12/03/19 22:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		12/03/19 22:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		12/03/19 22:23	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		12/03/19 22:23	127-18-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility

Pace Project No.: 92454714

Sample: RW-2S	Lab ID: 92454714002	Collected: 11/19/19 10:40	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	2.0	2		12/03/19 22:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		12/03/19 22:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		12/03/19 22:23	120-82-1	
1,1,1-Trichloroethane	209	ug/L	2.0	2		12/03/19 22:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		12/03/19 22:23	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		12/03/19 22:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		12/03/19 22:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		12/03/19 22:23	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		12/03/19 22:23	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		12/03/19 22:23	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		12/03/19 22:23	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		12/03/19 22:23	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		12/03/19 22:23	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	2		12/03/19 22:23	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	2		12/03/19 22:23	17060-07-0	
Toluene-d8 (S)	103	%	70-130	2		12/03/19 22:23	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	111	ug/L	5.0	2.5		11/23/19 21:13	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	50-150	2.5		11/23/19 21:13	17060-07-0	
Toluene-d8 (S)	85	%	50-150	2.5		11/23/19 21:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Sample: RW-1S	Lab ID: 92454714003	Collected: 11/19/19 11:00	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	62.5	2.5		11/27/19 19:53	67-64-1	
Benzene	ND	ug/L	2.5	2.5		11/27/19 19:53	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	108-86-1	
Bromoform	ND	ug/L	2.5	2.5		11/27/19 19:53	74-97-5	
Bromochloromethane	ND	ug/L	2.5	2.5		11/27/19 19:53	75-27-4	
Bromodichloromethane	ND	ug/L	2.5	2.5		11/27/19 19:53	124-48-1	
Bromomethane	ND	ug/L	5.0	2.5		11/27/19 19:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	12.5	2.5		11/27/19 19:53	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		11/27/19 19:53	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	108-90-7	
Chloroethane	<b>19.3</b>	ug/L	2.5	2.5		11/27/19 19:53	75-00-3	
Chloroform	ND	ug/L	12.5	2.5		11/27/19 19:53	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		11/27/19 19:53	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		11/27/19 19:53	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		11/27/19 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	2.5		11/27/19 19:53	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		11/27/19 19:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		11/27/19 19:53	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		11/27/19 19:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		11/27/19 19:53	75-71-8	L1
1,1-Dichloroethane	<b>77.4</b>	ug/L	2.5	2.5		11/27/19 19:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	2.5		11/27/19 19:53	107-06-2	
1,1-Dichloroethene	<b>348</b>	ug/L	2.5	2.5		11/27/19 19:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		11/27/19 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		11/27/19 19:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		11/27/19 19:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		11/27/19 19:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		11/27/19 19:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		11/27/19 19:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		11/27/19 19:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		11/27/19 19:53	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		11/27/19 19:53	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.5	2.5		11/27/19 19:53	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		11/27/19 19:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		11/27/19 19:53	99-87-6	
Methylene Chloride	ND	ug/L	12.5	2.5		11/27/19 19:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		11/27/19 19:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		11/27/19 19:53	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		11/27/19 19:53	91-20-3	
Styrene	ND	ug/L	2.5	2.5		11/27/19 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		11/27/19 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		11/27/19 19:53	79-34-5	
Tetrachloroethene	ND	ug/L	2.5	2.5		11/27/19 19:53	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility

Pace Project No.: 92454714

Sample: RW-1S	Lab ID: 92454714003	Collected: 11/19/19 11:00	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	2.5	2.5		11/27/19 19:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		11/27/19 19:53	120-82-1	
1,1,1-Trichloroethane	<b>51.0</b>	ug/L	2.5	2.5		11/27/19 19:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		11/27/19 19:53	79-00-5	
Trichloroethene	ND	ug/L	2.5	2.5		11/27/19 19:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.5	2.5		11/27/19 19:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		11/27/19 19:53	96-18-4	
Vinyl acetate	ND	ug/L	5.0	2.5		11/27/19 19:53	108-05-4	
Vinyl chloride	<b>4.4</b>	ug/L	2.5	2.5		11/27/19 19:53	75-01-4	L1
Xylene (Total)	ND	ug/L	2.5	2.5		11/27/19 19:53	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	2.5		11/27/19 19:53	179601-23-1	
o-Xylene	ND	ug/L	2.5	2.5		11/27/19 19:53	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	104	%	70-130	2.5		11/27/19 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	2.5		11/27/19 19:53	17060-07-0	
Toluene-d8 (S)	107	%	70-130	2.5		11/27/19 19:53	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>299</b>	ug/L	10.0	5		11/23/19 21:33	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	92	%	50-150	5		11/23/19 21:33	17060-07-0	
Toluene-d8 (S)	85	%	50-150	5		11/23/19 21:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Sample: RW-2D	Lab ID: 92454714004	Collected: 11/19/19 13:20	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		12/02/19 12:43	67-64-1	
Benzene	ND	ug/L	1.0	1		12/02/19 12:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/02/19 12:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/02/19 12:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/02/19 12:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/02/19 12:43	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/02/19 12:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/02/19 12:43	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/02/19 12:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/02/19 12:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/02/19 12:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/19 12:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/02/19 12:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/02/19 12:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/02/19 12:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		12/02/19 12:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/02/19 12:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/02/19 12:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/02/19 12:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/02/19 12:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/02/19 12:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/02/19 12:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/02/19 12:43	75-71-8	L1
1,1-Dichloroethane	<b>21.6</b>	ug/L	1.0	1		12/02/19 12:43	75-34-3	
1,2-Dichloroethane	<b>1.3</b>	ug/L	1.0	1		12/02/19 12:43	107-06-2	
1,1-Dichloroethene	<b>149</b>	ug/L	1.0	1		12/02/19 12:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/02/19 12:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/02/19 12:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/02/19 12:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/02/19 12:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/02/19 12:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/02/19 12:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/02/19 12:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/02/19 12:43	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/02/19 12:43	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/02/19 12:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/02/19 12:43	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/02/19 12:43	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/02/19 12:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/19 12:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/02/19 12:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/02/19 12:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/02/19 12:43	91-20-3	
Styrene	ND	ug/L	1.0	1		12/02/19 12:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/02/19 12:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/02/19 12:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/02/19 12:43	127-18-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility

Pace Project No.: 92454714

Sample: RW-2D	Lab ID: 92454714004	Collected: 11/19/19 13:20	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		12/02/19 12:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/02/19 12:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/02/19 12:43	120-82-1	
1,1,1-Trichloroethane	5.3	ug/L	1.0	1		12/02/19 12:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/02/19 12:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/02/19 12:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/02/19 12:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/02/19 12:43	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/02/19 12:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/02/19 12:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		12/02/19 12:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/02/19 12:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/02/19 12:43	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	105	%	70-130	1		12/02/19 12:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		12/02/19 12:43	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		12/02/19 12:43	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	85.5	ug/L	2.0	1		11/23/19 21:53	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	50-150	1		11/23/19 21:53	17060-07-0	
Toluene-d8 (S)	87	%	50-150	1		11/23/19 21:53	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility

Pace Project No.: 92454714

Sample: RW-1D	Lab ID: 92454714005	Collected: 11/19/19 11:20	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	50.0	2		12/02/19 18:39	67-64-1	
Benzene	ND	ug/L	2.0	2		12/02/19 18:39	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		12/02/19 18:39	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		12/02/19 18:39	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		12/02/19 18:39	75-27-4	
Bromoform	ND	ug/L	2.0	2		12/02/19 18:39	75-25-2	
Bromomethane	ND	ug/L	4.0	2		12/02/19 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		12/02/19 18:39	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		12/02/19 18:39	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		12/02/19 18:39	108-90-7	
Chloroethane	5.5	ug/L	2.0	2		12/02/19 18:39	75-00-3	
Chloroform	ND	ug/L	10.0	2		12/02/19 18:39	67-66-3	
Chloromethane	ND	ug/L	2.0	2		12/02/19 18:39	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		12/02/19 18:39	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		12/02/19 18:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	2		12/02/19 18:39	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		12/02/19 18:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		12/02/19 18:39	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		12/02/19 18:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		12/02/19 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		12/02/19 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		12/02/19 18:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		12/02/19 18:39	75-71-8	L1
1,1-Dichloroethane	49.9	ug/L	2.0	2		12/02/19 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.0	2		12/02/19 18:39	107-06-2	
1,1-Dichloroethene	240	ug/L	2.0	2		12/02/19 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		12/02/19 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		12/02/19 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		12/02/19 18:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		12/02/19 18:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		12/02/19 18:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		12/02/19 18:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		12/02/19 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		12/02/19 18:39	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		12/02/19 18:39	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		12/02/19 18:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		12/02/19 18:39	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		12/02/19 18:39	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		12/02/19 18:39	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		12/02/19 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		12/02/19 18:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		12/02/19 18:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		12/02/19 18:39	91-20-3	
Styrene	ND	ug/L	2.0	2		12/02/19 18:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		12/02/19 18:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		12/02/19 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		12/02/19 18:39	127-18-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

Sample: RW-1D	Lab ID: 92454714005	Collected: 11/19/19 11:20	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	2.0	2		12/02/19 18:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		12/02/19 18:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		12/02/19 18:39	120-82-1	
1,1,1-Trichloroethane	4.5	ug/L	2.0	2		12/02/19 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		12/02/19 18:39	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		12/02/19 18:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		12/02/19 18:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		12/02/19 18:39	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		12/02/19 18:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		12/02/19 18:39	75-01-4	L1
Xylene (Total)	ND	ug/L	2.0	2		12/02/19 18:39	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		12/02/19 18:39	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		12/02/19 18:39	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	106	%	70-130	2		12/02/19 18:39	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	2		12/02/19 18:39	17060-07-0	
Toluene-d8 (S)	110	%	70-130	2		12/02/19 18:39	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	89.7	ug/L	2.0	1		11/22/19 20:58	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	50-150	1		11/22/19 20:58	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		11/22/19 20:58	2037-26-5	

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## **QUALITY CONTROL DATA**

**Project:** Former Kop Flex Facility

Pace Project No.: 92454714

QC Batch: 512103

Analysis Method: EPA 8260E

QC Batch Method: EPA 8260B

Analysis Description: 8260 MSV Low Leve

Associated Lab Samples: 92454714001, 92454714003

METHOD BLANK: 2746253

### Matrix: Water

Associated Lab Samples: 92454714001, 92454714003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1-Dichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1-Dichloroethene	ug/L	ND	1.0	11/27/19 12:27	
1,1-Dichloropropene	ug/L	ND	1.0	11/27/19 12:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/27/19 12:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/27/19 12:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichloropropane	ug/L	ND	1.0	11/27/19 12:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,3-Dichloropropane	ug/L	ND	1.0	11/27/19 12:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
2,2-Dichloropropane	ug/L	ND	1.0	11/27/19 12:27	
2-Butanone (MEK)	ug/L	ND	5.0	11/27/19 12:27	
2-Chlorotoluene	ug/L	ND	1.0	11/27/19 12:27	
2-Hexanone	ug/L	ND	5.0	11/27/19 12:27	
4-Chlorotoluene	ug/L	ND	1.0	11/27/19 12:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/27/19 12:27	
Acetone	ug/L	ND	25.0	11/27/19 12:27	
Benzene	ug/L	ND	1.0	11/27/19 12:27	
Bromobenzene	ug/L	ND	1.0	11/27/19 12:27	
Bromochloromethane	ug/L	ND	1.0	11/27/19 12:27	
Bromodichloromethane	ug/L	ND	1.0	11/27/19 12:27	
Bromoform	ug/L	ND	1.0	11/27/19 12:27	
Bromomethane	ug/L	ND	2.0	11/27/19 12:27	
Carbon tetrachloride	ug/L	ND	1.0	11/27/19 12:27	
Chlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
Chloroethane	ug/L	ND	1.0	11/27/19 12:27	
Chloroform	ug/L	ND	5.0	11/27/19 12:27	
Chloromethane	ug/L	ND	1.0	11/27/19 12:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 12:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 12:27	
Dibromochloromethane	ug/L	ND	1.0	11/27/19 12:27	
Dibromomethane	ug/L	ND	1.0	11/27/19 12:27	
Dichlorodifluoromethane	ug/L	ND	1.0	11/27/19 12:27	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

METHOD BLANK: 2746253

Matrix: Water

Associated Lab Samples: 92454714001, 92454714003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	11/27/19 12:27	
Ethylbenzene	ug/L	ND	1.0	11/27/19 12:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/27/19 12:27	
m&p-Xylene	ug/L	ND	2.0	11/27/19 12:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/27/19 12:27	
Methylene Chloride	ug/L	ND	5.0	11/27/19 12:27	
Naphthalene	ug/L	ND	1.0	11/27/19 12:27	
o-Xylene	ug/L	ND	1.0	11/27/19 12:27	
p-Isopropyltoluene	ug/L	ND	1.0	11/27/19 12:27	
Styrene	ug/L	ND	1.0	11/27/19 12:27	
Tetrachloroethene	ug/L	ND	1.0	11/27/19 12:27	
Toluene	ug/L	ND	1.0	11/27/19 12:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 12:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 12:27	
Trichloroethene	ug/L	ND	1.0	11/27/19 12:27	
Trichlorofluoromethane	ug/L	ND	1.0	11/27/19 12:27	
Vinyl acetate	ug/L	ND	2.0	11/27/19 12:27	
Vinyl chloride	ug/L	ND	1.0	11/27/19 12:27	
Xylene (Total)	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichloroethane-d4 (S)	%	98	70-130	11/27/19 12:27	
4-Bromofluorobenzene (S)	%	107	70-130	11/27/19 12:27	
Toluene-d8 (S)	%	107	70-130	11/27/19 12:27	

LABORATORY CONTROL SAMPLE: 2746254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.0	106	70-130	
1,1,1-Trichloroethane	ug/L	50	52.7	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1-Dichloroethane	ug/L	50	51.7	103	70-130	
1,1-Dichloroethene	ug/L	50	56.3	113	70-130	
1,1-Dichloropropene	ug/L	50	58.4	117	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	70-130	
1,2,3-Trichloropropane	ug/L	50	52.2	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	50.8	102	70-130	
1,2-Dichloropropene	ug/L	50	53.8	108	70-130	
1,3-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,3-Dichloropropane	ug/L	50	56.2	112	70-131	
1,4-Dichlorobenzene	ug/L	50	49.0	98	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

LABORATORY CONTROL SAMPLE: 2746254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	52.3	105	69-130	
2-Butanone (MEK)	ug/L	100	108	108	64-135	
2-Chlorotoluene	ug/L	50	50.1	100	70-130	
2-Hexanone	ug/L	100	104	104	66-135	
4-Chlorotoluene	ug/L	50	50.4	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	124	124	61-157	
Benzene	ug/L	50	52.7	105	70-130	
Bromobenzene	ug/L	50	49.5	99	70-130	
Bromochloromethane	ug/L	50	53.5	107	70-130	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	51.8	104	70-130	
Bromomethane	ug/L	50	37.3	75	38-130	
Carbon tetrachloride	ug/L	50	49.8	100	70-130	
Chlorobenzene	ug/L	50	49.5	99	70-130	
Chloroethane	ug/L	50	55.9	112	37-142	
Chloroform	ug/L	50	52.7	105	70-130	
Chloromethane	ug/L	50	57.3	115	48-130	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	57.7	115	70-130	
Dibromochloromethane	ug/L	50	53.8	108	70-130	
Dibromomethane	ug/L	50	46.3	93	70-130	
Dichlorodifluoromethane	ug/L	50	68.5	137	53-134 L1	
Diisopropyl ether	ug/L	50	56.6	113	70-135	
Ethylbenzene	ug/L	50	49.2	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.8	102	68-132	
m&p-Xylene	ug/L	100	99.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	57.7	115	70-130	
Methylene Chloride	ug/L	50	52.1	104	67-132	
Naphthalene	ug/L	50	50.8	102	70-130	
o-Xylene	ug/L	50	49.9	100	70-130	
p-Isopropyltoluene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	47.0	94	69-130	
Toluene	ug/L	50	48.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	55.8	112	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	51.4	103	63-130	
Vinyl acetate	ug/L	100	110	110	55-143	
Vinyl chloride	ug/L	50	66.5	133	70-131 L1	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746255      2746256

Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		92454820011	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual	
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.7	19.9	94	100	73-134	6	30		
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	21.4	21.1	107	106	82-143	1	30		
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	20.0	20.7	100	103	70-136	3	30		
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	21.5	20.6	108	103	70-135	5	30		
1,1-Dichloroethane	ug/L	1.0 U	20	20	22.0	21.6	110	108	70-139	2	30		
1,1-Dichloroethene	ug/L	1.0 U	20	20	24.3	23.8	122	119	70-154	2	30		
1,1-Dichloropropene	ug/L	1.0 U	20	20	22.4	22.9	112	115	70-149	2	30		
1,2,3-Trichlorobenzene	ug/L	1.0 U	20	20	19.4	20.1	97	100	70-135	3	30		
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	20.0	20.7	100	103	71-137	3	30		
1,2,4-Trichlorobenzene	ug/L	1.0 U	20	20	18.6	19.8	93	99	73-140	6	30		
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	17.9	18.8	89	94	65-134	5	30		
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	20.0	20.6	100	103	70-137	3	30		
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.6	20.5	98	103	70-133	4	30		
1,2-Dichloroethane	ug/L	1.0 U	20	20	20.7	20.5	103	103	70-137	1	30		
1,2-Dichloropropane	ug/L	1.0 U	20	20	22.3	21.4	112	107	70-140	4	30		
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	19.8	19.8	99	99	70-135	0	30		
1,3-Dichloropropane	ug/L	1.0 U	20	20	21.2	21.9	106	110	70-143	3	30		
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	20.1	19.5	101	97	70-133	3	30		
2,2-Dichloropropane	ug/L	1.0 U	20	20	19.8	19.7	99	99	61-148	0	30		
2-Butanone (MEK)	ug/L	5.0 U	40	40	35.7	39.8	89	99	60-139	11	30		
2-Chlorotoluene	ug/L	1.0 U	20	20	20.1	20.3	100	102	70-144	1	30		
2-Hexanone	ug/L	5.0 U	40	40	40.2	42.6	101	107	65-138	6	30		
4-Chlorotoluene	ug/L	1.0 U	20	20	20.3	20.6	102	103	70-137	1	30		
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	40	39.8	42.0	100	105	65-135	5	30		
Acetone	ug/L	25.0 U	40	40	42.9	45.6	107	114	60-148	6	30		
Benzene	ug/L	1.0 U	20	20	22.6	21.6	113	108	70-151	4	30		
Bromobenzene	ug/L	1.0 U	20	20	20.0	20.0	100	100	70-136	0	30		
Bromochloromethane	ug/L	1.0 U	20	20	22.2	22.1	111	110	70-141	1	30		
Bromodichloromethane	ug/L	1.0 U	20	20	21.7	20.9	109	105	70-138	4	30		
Bromoform	ug/L	1.0 U	20	20	18.8	19.7	94	98	63-130	4	30		
Bromomethane	ug/L	2.0 U	20	20	17.1	18.5	86	92	15-152	8	30		
Carbon tetrachloride	ug/L	1.0 U	20	20	22.7	22.1	113	111	70-143	3	30		
Chlorobenzene	ug/L	1.0 U	20	20	20.6	20.7	103	104	70-138	1	30		
Chloroethane	ug/L	1.0 U	20	20	28.1	26.0	141	130	52-163	8	30		
Chloroform	ug/L	5.0 U	20	20	21.6	21.8	108	109	70-139	1	30		
Chloromethane	ug/L	1.0 U	20	20	24.2	24.1	121	120	41-139	1	30		
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	21.4	21.5	107	107	70-141	0	30		
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	21.0	21.1	105	105	70-137	0	30		
Dibromochloromethane	ug/L	1.0 U	20	20	19.0	19.7	95	98	70-134	3	30		
Dibromomethane	ug/L	1.0 U	20	20	20.4	19.3	102	97	70-138	5	30		
Dichlorodifluoromethane	ug/L	1.0 U	20	20	28.2	28.2	141	141	47-155	0	30		
Diisopropyl ether	ug/L	1.0 U	20	20	20.6	21.9	103	109	63-144	6	30		
Ethylbenzene	ug/L	1.0 U	20	20	20.5	20.7	102	104	66-153	1	30		
Hexachloro-1,3-butadiene	ug/L	1.0 U	20	20	18.6	18.1	93	91	65-149	3	30		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746255      2746256

Parameter	Units	MS		MSD		MS Result	% Rec	MSD % Rec	% Rec	Max	
		92454820011	Spike Conc.	Spike Conc.	MS Result					RPD	RPD
m&p-Xylene	ug/L	2.0 U	40	40	42.3	42.8	106	107	69-152	1	30
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	20.1	21.2	100	106	54-156	5	30
Methylene Chloride	ug/L	5.0 U	20	20	23.6	23.0	118	115	42-159	3	30
Naphthalene	ug/L	1.0 U	20	20	18.8	19.5	94	98	61-148	4	30
o-Xylene	ug/L	1.0 U	20	20	20.3	20.5	101	103	70-148	1	30
p-Isopropyltoluene	ug/L	1.0 U	20	20	19.3	19.8	97	99	70-146	2	30
Styrene	ug/L	1.0 U	20	20	20.4	20.9	102	104	70-135	2	30
Tetrachloroethene	ug/L	1.0 U	20	20	19.2	19.0	96	95	59-143	1	30
Toluene	ug/L	1.0 U	20	20	21.3	20.7	106	103	59-148	3	30
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	22.5	22.2	113	111	70-146	2	30
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	20.7	21.3	104	107	70-135	3	30
Trichloroethene	ug/L	1.8	20	20	23.9	23.3	111	108	70-147	3	30
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.1	22.5	115	113	70-148	2	30
Vinyl acetate	ug/L	2.0 U	40	40	34.4	35.4	86	88	49-151	3	30
Vinyl chloride	ug/L	1.0 U	20	20	26.5	26.4	133	132	70-156	0	30
Xylene (Total)	ug/L	1.0 U	60	60	62.6	63.3	104	106	63-158	1	30
1,2-Dichloroethane-d4 (S)	%						104	107	70-130		
4-Bromofluorobenzene (S)	%						101	103	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

QC Batch:	512362	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260 MSV Low Level
Associated Lab Samples: 92454714004			

METHOD BLANK: 2747421 Matrix: Water

Associated Lab Samples: 92454714004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/02/19 12:25	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/02/19 12:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/02/19 12:25	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/02/19 12:25	
1,1-Dichloroethane	ug/L	ND	1.0	12/02/19 12:25	
1,1-Dichloroethene	ug/L	ND	1.0	12/02/19 12:25	
1,1-Dichloropropene	ug/L	ND	1.0	12/02/19 12:25	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/02/19 12:25	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/02/19 12:25	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/02/19 12:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/02/19 12:25	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/02/19 12:25	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/02/19 12:25	
1,2-Dichloroethane	ug/L	ND	1.0	12/02/19 12:25	
1,2-Dichloropropane	ug/L	ND	1.0	12/02/19 12:25	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/02/19 12:25	
1,3-Dichloropropane	ug/L	ND	1.0	12/02/19 12:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/02/19 12:25	
2,2-Dichloropropane	ug/L	ND	1.0	12/02/19 12:25	
2-Butanone (MEK)	ug/L	ND	5.0	12/02/19 12:25	
2-Chlorotoluene	ug/L	ND	1.0	12/02/19 12:25	
2-Hexanone	ug/L	ND	5.0	12/02/19 12:25	
4-Chlorotoluene	ug/L	ND	1.0	12/02/19 12:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/02/19 12:25	
Acetone	ug/L	ND	25.0	12/02/19 12:25	
Benzene	ug/L	ND	1.0	12/02/19 12:25	
Bromobenzene	ug/L	ND	1.0	12/02/19 12:25	
Bromochloromethane	ug/L	ND	1.0	12/02/19 12:25	
Bromodichloromethane	ug/L	ND	1.0	12/02/19 12:25	
Bromoform	ug/L	ND	1.0	12/02/19 12:25	
Bromomethane	ug/L	ND	2.0	12/02/19 12:25	
Carbon tetrachloride	ug/L	ND	1.0	12/02/19 12:25	
Chlorobenzene	ug/L	ND	1.0	12/02/19 12:25	
Chloroethane	ug/L	ND	1.0	12/02/19 12:25	
Chloroform	ug/L	ND	5.0	12/02/19 12:25	
Chloromethane	ug/L	ND	1.0	12/02/19 12:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/02/19 12:25	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/02/19 12:25	
Dibromochloromethane	ug/L	ND	1.0	12/02/19 12:25	
Dibromomethane	ug/L	ND	1.0	12/02/19 12:25	
Dichlorodifluoromethane	ug/L	ND	1.0	12/02/19 12:25	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

METHOD BLANK: 2747421                          Matrix: Water  
Associated Lab Samples: 92454714004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/02/19 12:25	
Ethylbenzene	ug/L	ND	1.0	12/02/19 12:25	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/02/19 12:25	
m&p-Xylene	ug/L	ND	2.0	12/02/19 12:25	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/02/19 12:25	
Methylene Chloride	ug/L	ND	5.0	12/02/19 12:25	
Naphthalene	ug/L	ND	1.0	12/02/19 12:25	
o-Xylene	ug/L	ND	1.0	12/02/19 12:25	
p-Isopropyltoluene	ug/L	ND	1.0	12/02/19 12:25	
Styrene	ug/L	ND	1.0	12/02/19 12:25	
Tetrachloroethene	ug/L	ND	1.0	12/02/19 12:25	
Toluene	ug/L	ND	1.0	12/02/19 12:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/02/19 12:25	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/02/19 12:25	
Trichloroethene	ug/L	ND	1.0	12/02/19 12:25	
Trichlorofluoromethane	ug/L	ND	1.0	12/02/19 12:25	
Vinyl acetate	ug/L	ND	2.0	12/02/19 12:25	
Vinyl chloride	ug/L	ND	1.0	12/02/19 12:25	
Xylene (Total)	ug/L	ND	1.0	12/02/19 12:25	
1,2-Dichloroethane-d4 (S)	%	102	70-130	12/02/19 12:25	
4-Bromofluorobenzene (S)	%	107	70-130	12/02/19 12:25	
Toluene-d8 (S)	%	107	70-130	12/02/19 12:25	

LABORATORY CONTROL SAMPLE: 2747422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.5	107	70-130	
1,1,1-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.6	107	70-130	
1,1-Dichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethene	ug/L	50	56.8	114	70-130	
1,1-Dichloropropene	ug/L	50	59.3	119	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.1	100	70-130	
1,2,3-Trichloropropane	ug/L	50	53.8	108	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.2	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.2	106	70-130	
1,2-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,2-Dichloroethane	ug/L	50	50.7	101	70-130	
1,2-Dichloropropene	ug/L	50	53.6	107	70-130	
1,3-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,3-Dichloropropane	ug/L	50	55.5	111	70-131	
1,4-Dichlorobenzene	ug/L	50	48.6	97	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

LABORATORY CONTROL SAMPLE: 2747422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	53.9	108	69-130	
2-Butanone (MEK)	ug/L	100	110	110	64-135	
2-Chlorotoluene	ug/L	50	49.8	100	70-130	
2-Hexanone	ug/L	100	107	107	66-135	
4-Chlorotoluene	ug/L	50	50.2	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-130	
Acetone	ug/L	100	124	124	61-157	
Benzene	ug/L	50	53.5	107	70-130	
Bromobenzene	ug/L	50	48.9	98	70-130	
Bromochloromethane	ug/L	50	52.2	104	70-130	
Bromodichloromethane	ug/L	50	53.2	106	70-130	
Bromoform	ug/L	50	54.3	109	70-130	
Bromomethane	ug/L	50	52.4	105	38-130	
Carbon tetrachloride	ug/L	50	53.0	106	70-130	
Chlorobenzene	ug/L	50	49.1	98	70-130	
Chloroethane	ug/L	50	53.8	108	37-142	
Chloroform	ug/L	50	52.9	106	70-130	
Chloromethane	ug/L	50	58.4	117	48-130	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	58.3	117	70-130	
Dibromochloromethane	ug/L	50	54.5	109	70-130	
Dibromomethane	ug/L	50	46.9	94	70-130	
Dichlorodifluoromethane	ug/L	50	72.4	145	53-134 L1	
Diisopropyl ether	ug/L	50	58.4	117	70-135	
Ethylbenzene	ug/L	50	49.0	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.2	102	68-132	
m&p-Xylene	ug/L	100	98.5	99	70-130	
Methyl-tert-butyl ether	ug/L	50	57.9	116	70-130	
Methylene Chloride	ug/L	50	53.7	107	67-132	
Naphthalene	ug/L	50	50.1	100	70-130	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	48.2	96	69-130	
Toluene	ug/L	50	49.2	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.6	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	58.6	117	70-130	
Trichloroethene	ug/L	50	53.2	106	70-130	
Trichlorofluoromethane	ug/L	50	52.6	105	63-130	
Vinyl acetate	ug/L	100	103	103	55-143	
Vinyl chloride	ug/L	50	65.0	130	70-131	
Xylene (Total)	ug/L	150	148	98	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2747423		2747424									
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		92455135001	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual	
1,1,1,2-Tetrachloroethane	ug/L		250	250	236	267	95	107	73-134	12	30		
1,1,1-Trichloroethane	ug/L		250	250	249	301	100	120	82-143	19	30		
1,1,2,2-Tetrachloroethane	ug/L		250	250	233	265	93	106	70-136	13	30		
1,1,2-Trichloroethane	ug/L		250	250	243	271	97	108	70-135	11	30		
1,1-Dichloroethane	ug/L		250	250	258	298	103	119	70-139	14	30		
1,1-Dichloroethene	ug/L		250	250	285	326	114	130	70-154	13	30		
1,1-Dichloropropene	ug/L		250	250	282	332	113	133	70-149	16	30		
1,2,3-Trichlorobenzene	ug/L		250	250	219	255	88	102	70-135	15	30		
1,2,3-Trichloropropane	ug/L		250	250	234	271	94	108	71-137	15	30		
1,2,4-Trichlorobenzene	ug/L		250	250	221	250	88	100	73-140	12	30		
1,2-Dibromo-3-chloropropane	ug/L		250	250	211	244	84	97	65-134	15	30		
1,2-Dibromoethane (EDB)	ug/L		250	250	228	258	91	103	70-137	12	30		
1,2-Dichlorobenzene	ug/L		250	250	232	259	93	103	70-133	11	30		
1,2-Dichloroethane	ug/L		250	250	247	280	99	112	70-137	13	30		
1,2-Dichloropropane	ug/L		250	250	264	293	105	117	70-140	11	30		
1,3-Dichlorobenzene	ug/L		250	250	223	258	89	103	70-135	14	30		
1,3-Dichloropropane	ug/L		250	250	247	285	99	114	70-143	14	30		
1,4-Dichlorobenzene	ug/L		250	250	224	259	90	104	70-133	15	30		
2,2-Dichloropropane	ug/L		250	250	245	274	98	110	61-148	11	30		
2-Butanone (MEK)	ug/L		500	500	448	511	90	102	60-139	13	30		
2-Chlorotoluene	ug/L		250	250	233	265	93	106	70-144	13	30		
2-Hexanone	ug/L		500	500	470	518	94	104	65-138	10	30		
4-Chlorotoluene	ug/L		250	250	230	268	92	107	70-137	15	30		
4-Methyl-2-pentanone (MIBK)	ug/L		500	500	479	520	96	104	65-135	8	30		
Acetone	ug/L		500	500	557	649	111	130	60-148	15	30		
Benzene	ug/L	1230	250	250	1470	1480	98	100	70-151	0	30		
Bromobenzene	ug/L		250	250	232	263	93	105	70-136	13	30		
Bromochloromethane	ug/L		250	250	254	288	101	115	70-141	13	30		
Bromodichloromethane	ug/L		250	250	258	282	103	113	70-138	9	30		
Bromoform	ug/L		250	250	221	253	88	101	63-130	13	30		
Bromomethane	ug/L		250	250	264	310	105	124	15-152	16	30		
Carbon tetrachloride	ug/L		250	250	252	293	101	117	70-143	15	30		
Chlorobenzene	ug/L		250	250	232	268	93	107	70-138	14	30		
Chloroethane	ug/L		250	250	306	369	122	148	52-163	19	30		
Chloroform	ug/L		250	250	255	293	102	117	70-139	14	30		
Chloromethane	ug/L		250	250	296	347	118	139	41-139	16	30		
cis-1,2-Dichloroethene	ug/L		250	250	246	295	98	118	70-141	18	30		
cis-1,3-Dichloropropene	ug/L		250	250	260	294	104	118	70-137	12	30		
Dibromochloromethane	ug/L		250	250	227	263	91	105	70-134	14	30		
Dibromomethane	ug/L		250	250	228	251	91	100	70-138	10	30		
Dichlorodifluoromethane	ug/L		250	250	346	407	138	163	47-155	16	30	M0	
Diisopropyl ether	ug/L		250	250	425	472	104	123	63-144	11	30		
Ethylbenzene	ug/L	395	250	250	610	643	86	99	66-153	5	30		
Hexachloro-1,3-butadiene	ug/L		250	250	207	247	83	99	65-149	18	30		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747423      2747424

Parameter	Units	92455135001 Result	MS	MSD		MS Result	% Rec	MSD % Rec	% Rec	Max		
			Spike Conc.	Spike Conc.	MS Result					RPD	RPD	Qual
m&p-Xylene	ug/L		500	500	535	603	95	108	69-152	12	30	
Methyl-tert-butyl ether	ug/L		250	250	371	417	106	125	54-156	12	30	
Methylene Chloride	ug/L		250	250	275	317	110	127	42-159	14	30	
Naphthalene	ug/L		250	250	267	299	90	103	61-148	11	30	
o-Xylene	ug/L		250	250	232	266	93	107	70-148	14	30	
p-Isopropyltoluene	ug/L		250	250	225	266	90	106	70-146	17	30	
Styrene	ug/L		250	250	235	275	94	110	70-135	16	30	
Tetrachloroethene	ug/L		250	250	221	251	88	101	59-143	13	30	
Toluene	ug/L	ND	250	250	254	277	97	106	59-148	9	30	
trans-1,2-Dichloroethene	ug/L		250	250	266	311	106	124	70-146	16	30	
trans-1,3-Dichloropropene	ug/L		250	250	245	279	98	112	70-135	13	30	
Trichloroethene	ug/L		250	250	263	295	105	118	70-147	11	30	
Trichlorofluoromethane	ug/L		250	250	268	313	107	125	70-148	15	30	
Vinyl acetate	ug/L		500	500	453	522	91	104	49-151	14	30	
Vinyl chloride	ug/L		250	250	326	379	130	152	70-156	15	30	
Xylene (Total)	ug/L	62.6	750	750	767	870	94	108	63-158	13	30	
1,2-Dichloroethane-d4 (S)	%						109	109	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						102	99	70-130			

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## REPORT OF LABORATORY ANALYSIS

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## **QUALITY CONTROL DATA**

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

QC Batch: 512363 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level  
Associated Lab Samples: 92454714005

METHOD BLANK: 2747429 Matrix: Water

Associated Lab Samples: 92454714005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/02/19 12:07	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/02/19 12:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/02/19 12:07	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/02/19 12:07	
1,1-Dichloroethane	ug/L	ND	1.0	12/02/19 12:07	
1,1-Dichloroethene	ug/L	ND	1.0	12/02/19 12:07	
1,1-Dichloropropene	ug/L	ND	1.0	12/02/19 12:07	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/02/19 12:07	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/02/19 12:07	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/02/19 12:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/02/19 12:07	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/02/19 12:07	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/02/19 12:07	
1,2-Dichloroethane	ug/L	ND	1.0	12/02/19 12:07	
1,2-Dichloropropane	ug/L	ND	1.0	12/02/19 12:07	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/02/19 12:07	
1,3-Dichloropropane	ug/L	ND	1.0	12/02/19 12:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/02/19 12:07	
2,2-Dichloropropane	ug/L	ND	1.0	12/02/19 12:07	
2-Butanone (MEK)	ug/L	ND	5.0	12/02/19 12:07	
2-Chlorotoluene	ug/L	ND	1.0	12/02/19 12:07	
2-Hexanone	ug/L	ND	5.0	12/02/19 12:07	
4-Chlorotoluene	ug/L	ND	1.0	12/02/19 12:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/02/19 12:07	
Acetone	ug/L	ND	25.0	12/02/19 12:07	
Benzene	ug/L	ND	1.0	12/02/19 12:07	
Bromobenzene	ug/L	ND	1.0	12/02/19 12:07	
Bromochloromethane	ug/L	ND	1.0	12/02/19 12:07	
Bromodichloromethane	ug/L	ND	1.0	12/02/19 12:07	
Bromoform	ug/L	ND	1.0	12/02/19 12:07	
Bromomethane	ug/L	ND	2.0	12/02/19 12:07	
Carbon tetrachloride	ug/L	ND	1.0	12/02/19 12:07	
Chlorobenzene	ug/L	ND	1.0	12/02/19 12:07	
Chloroethane	ug/L	ND	1.0	12/02/19 12:07	
Chloroform	ug/L	ND	5.0	12/02/19 12:07	
Chloromethane	ug/L	ND	1.0	12/02/19 12:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/02/19 12:07	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/02/19 12:07	
Dibromochloromethane	ug/L	ND	1.0	12/02/19 12:07	
Dibromomethane	ug/L	ND	1.0	12/02/19 12:07	
Dichlorodifluoromethane	ug/L	ND	1.0	12/02/19 12:07	

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## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

METHOD BLANK: 2747429                          Matrix: Water

Associated Lab Samples: 92454714005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/02/19 12:07	
Ethylbenzene	ug/L	ND	1.0	12/02/19 12:07	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/02/19 12:07	
m&p-Xylene	ug/L	ND	2.0	12/02/19 12:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/02/19 12:07	
Methylene Chloride	ug/L	ND	5.0	12/02/19 12:07	
Naphthalene	ug/L	ND	1.0	12/02/19 12:07	
o-Xylene	ug/L	ND	1.0	12/02/19 12:07	
p-Isopropyltoluene	ug/L	ND	1.0	12/02/19 12:07	
Styrene	ug/L	ND	1.0	12/02/19 12:07	
Tetrachloroethene	ug/L	ND	1.0	12/02/19 12:07	
Toluene	ug/L	ND	1.0	12/02/19 12:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/02/19 12:07	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/02/19 12:07	
Trichloroethene	ug/L	ND	1.0	12/02/19 12:07	
Trichlorofluoromethane	ug/L	ND	1.0	12/02/19 12:07	
Vinyl acetate	ug/L	ND	2.0	12/02/19 12:07	
Vinyl chloride	ug/L	ND	1.0	12/02/19 12:07	
Xylene (Total)	ug/L	ND	1.0	12/02/19 12:07	
1,2-Dichloroethane-d4 (S)	%	103	70-130	12/02/19 12:07	
4-Bromofluorobenzene (S)	%	106	70-130	12/02/19 12:07	
Toluene-d8 (S)	%	109	70-130	12/02/19 12:07	

LABORATORY CONTROL SAMPLE: 2747430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	70-130	
1,1,1-Trichloroethane	ug/L	50	53.0	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.0	104	70-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	51.6	103	70-130	
1,1-Dichloroethene	ug/L	50	57.1	114	70-130	
1,1-Dichloropropene	ug/L	50	59.0	118	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.7	103	70-130	
1,2,3-Trichloropropane	ug/L	50	54.1	108	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.3	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	70-130	
1,2-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	70-130	
1,2-Dichloropropene	ug/L	50	52.6	105	70-130	
1,3-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,3-Dichloropropane	ug/L	50	55.4	111	70-131	
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

LABORATORY CONTROL SAMPLE: 2747430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	55.0	110	69-130	
2-Butanone (MEK)	ug/L	100	113	113	64-135	
2-Chlorotoluene	ug/L	50	49.6	99	70-130	
2-Hexanone	ug/L	100	106	106	66-135	
4-Chlorotoluene	ug/L	50	50.8	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-130	
Acetone	ug/L	100	128	128	61-157	
Benzene	ug/L	50	52.4	105	70-130	
Bromobenzene	ug/L	50	48.5	97	70-130	
Bromochloromethane	ug/L	50	53.9	108	70-130	
Bromodichloromethane	ug/L	50	52.1	104	70-130	
Bromoform	ug/L	50	54.0	108	70-130	
Bromomethane	ug/L	50	57.7	115	38-130	
Carbon tetrachloride	ug/L	50	51.3	103	70-130	
Chlorobenzene	ug/L	50	48.3	97	70-130	
Chloroethane	ug/L	50	54.2	108	37-142	
Chloroform	ug/L	50	52.1	104	70-130	
Chloromethane	ug/L	50	58.8	118	48-130	
cis-1,2-Dichloroethene	ug/L	50	51.2	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	57.2	114	70-130	
Dibromochloromethane	ug/L	50	53.2	106	70-130	
Dibromomethane	ug/L	50	46.7	93	70-130	
Dichlorodifluoromethane	ug/L	50	71.2	142	53-134 L1	
Diisopropyl ether	ug/L	50	58.1	116	70-135	
Ethylbenzene	ug/L	50	48.4	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.4	97	68-132	
m&p-Xylene	ug/L	100	98.5	98	70-130	
Methyl-tert-butyl ether	ug/L	50	59.0	118	70-130	
Methylene Chloride	ug/L	50	54.0	108	67-132	
Naphthalene	ug/L	50	51.0	102	70-130	
o-Xylene	ug/L	50	46.9	94	70-130	
p-Isopropyltoluene	ug/L	50	49.6	99	70-130	
Styrene	ug/L	50	50.1	100	70-130	
Tetrachloroethene	ug/L	50	46.8	94	69-130	
Toluene	ug/L	50	48.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.7	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	57.6	115	70-130	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	51.2	102	63-130	
Vinyl acetate	ug/L	100	104	104	55-143	
Vinyl chloride	ug/L	50	66.6	133	70-131 L1	
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2747431		2747432		% Rec	Limits	RPD	Max RPD	Qual
				MS	MSD	MS	MSD					
		92454724018	Result	Spike Conc.	Spike Conc.	Result	% Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	100	100	103	107	103	107	73-134	3	30	
1,1,1-Trichloroethane	ug/L	10.0	100	100	127	123	117	113	82-143	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	106	105	106	105	70-136	0	30	
1,1,2-Trichloroethane	ug/L	ND	100	100	107	109	107	109	70-135	2	30	
1,1-Dichloroethane	ug/L	54.5	100	100	164	164	110	110	70-139	0	30	
1,1-Dichloroethylene	ug/L	868	100	100	1110	1100	238	233	70-154	0	30	E,M1
1,1-Dichloropropene	ug/L	ND	100	100	119	118	119	118	70-149	0	30	
1,2,3-Trichlorobenzene	ug/L	ND	100	100	101	100	101	100	70-135	1	30	
1,2,3-Trichloropropane	ug/L	ND	100	100	105	109	105	109	71-137	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	100	100	92.7	97.8	93	98	73-140	5	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	97.2	94.7	97	95	65-134	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	100	104	100	104	70-137	3	30	
1,2-Dichlorobenzene	ug/L	ND	100	100	104	102	104	102	70-133	2	30	
1,2-Dichloroethane	ug/L	6.6	100	100	112	115	105	108	70-137	2	30	
1,2-Dichloropropane	ug/L	ND	100	100	112	112	112	112	70-140	0	30	
1,3-Dichlorobenzene	ug/L	ND	100	100	101	100	101	100	70-135	1	30	
1,3-Dichloropropane	ug/L	ND	100	100	109	109	109	109	70-143	1	30	
1,4-Dichlorobenzene	ug/L	ND	100	100	103	101	103	101	70-133	2	30	
2,2-Dichloropropane	ug/L	ND	100	100	103	101	103	101	61-148	1	30	
2-Butanone (MEK)	ug/L	ND	200	200	192	197	96	98	60-139	2	30	
2-Chlorotoluene	ug/L	ND	100	100	104	104	104	104	70-144	0	30	
2-Hexanone	ug/L	ND	200	200	213	215	107	107	65-138	1	30	
4-Chlorotoluene	ug/L	ND	100	100	109	104	109	104	70-137	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	200	200	211	211	105	106	65-135	0	30	
Acetone	ug/L	ND	200	200	225	226	112	113	60-148	1	30	
Benzene	ug/L	ND	100	100	119	116	119	116	70-151	3	30	
Bromobenzene	ug/L	ND	100	100	103	102	103	102	70-136	1	30	
Bromochloromethane	ug/L	ND	100	100	112	114	112	114	70-141	2	30	
Bromodichloromethane	ug/L	ND	100	100	115	109	115	109	70-138	5	30	
Bromoform	ug/L	ND	100	100	97.1	103	97	103	63-130	6	30	
Bromomethane	ug/L	ND	100	100	121	124	121	124	15-152	2	30	
Carbon tetrachloride	ug/L	ND	100	100	115	115	115	115	70-143	0	30	
Chlorobenzene	ug/L	ND	100	100	105	102	105	102	70-138	3	30	
Chloroethane	ug/L	ND	100	100	140	139	140	139	52-163	1	30	
Chloroform	ug/L	ND	100	100	113	115	113	115	70-139	2	30	
Chloromethane	ug/L	ND	100	100	132	131	132	131	41-139	1	30	
cis-1,2-Dichloroethene	ug/L	ND	100	100	115	115	111	111	70-141	0	30	
cis-1,3-Dichloropropene	ug/L	ND	100	100	114	109	114	109	70-137	4	30	
Dibromochloromethane	ug/L	ND	100	100	99.2	102	99	102	70-134	3	30	
Dibromomethane	ug/L	ND	100	100	103	103	103	103	70-138	0	30	
Dichlorodifluoromethane	ug/L	ND	100	100	155	156	155	156	47-155	1	30	M0
Diisopropyl ether	ug/L	ND	100	100	111	112	111	112	63-144	0	30	
Ethylbenzene	ug/L	ND	100	100	109	108	109	108	66-153	0	30	
Hexachloro-1,3-butadiene	ug/L	ND	100	100	93.7	98.7	94	99	65-149	5	30	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747431      2747432

Parameter	Units	MS		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	Max	
		92454724018	Result	Spike Conc.	Spike Conc.					RPD	RPD
m&p-Xylene	ug/L	ND	200	200	217	219	108	109	69-152	1	30
Methyl-tert-butyl ether	ug/L	ND	100	100	108	110	108	110	54-156	2	30
Methylene Chloride	ug/L	ND	100	100	122	125	116	119	42-159	2	30
Naphthalene	ug/L	ND	100	100	101	98.6	101	99	61-148	3	30
o-Xylene	ug/L	ND	100	100	105	107	105	107	70-148	1	30
p-Isopropyltoluene	ug/L	ND	100	100	104	102	104	102	70-146	1	30
Styrene	ug/L	ND	100	100	106	108	106	108	70-135	2	30
Tetrachloroethene	ug/L	ND	100	100	100	99.1	100	99	59-143	1	30
Toluene	ug/L	ND	100	100	108	107	108	107	59-148	1	30
trans-1,2-Dichloroethene	ug/L	ND	100	100	117	115	117	115	70-146	2	30
trans-1,3-Dichloropropene	ug/L	ND	100	100	111	110	111	110	70-135	1	30
Trichloroethene	ug/L	6.0	100	100	118	122	112	116	70-147	3	30
Trichlorofluoromethane	ug/L	ND	100	100	121	120	121	120	70-148	1	30
Vinyl acetate	ug/L	ND	200	200	184	187	92	94	49-151	2	30
Vinyl chloride	ug/L	ND	100	100	145	143	145	143	70-156	1	30
Xylene (Total)	ug/L	ND	300	300	322	325	107	108	63-158	1	30
1,2-Dichloroethane-d4 (S)	%						103	107	70-130		
4-Bromofluorobenzene (S)	%						101	103	70-130		
Toluene-d8 (S)	%						101	99	70-130		

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## REPORT OF LABORATORY ANALYSIS

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## **QUALITY CONTROL DATA**

**Project:** Former Kop Flex Facility

Pace Project No.: 92454714

QC Batch: 512721

QC Batch Method: EPA 8260B

Associated Lab Samples: 92454714002

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METHOD BLANK: 2748930

## Matrix: Water

Associated Lab Samples: 92454714002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/03/19 15:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/03/19 15:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/03/19 15:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/03/19 15:31	
1,1-Dichloroethane	ug/L	ND	1.0	12/03/19 15:31	
1,1-Dichloroethene	ug/L	ND	1.0	12/03/19 15:31	
1,1-Dichloropropene	ug/L	ND	1.0	12/03/19 15:31	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/03/19 15:31	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/03/19 15:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/03/19 15:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	12/03/19 15:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/03/19 15:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/03/19 15:31	
1,2-Dichloroethane	ug/L	ND	1.0	12/03/19 15:31	
1,2-Dichloropropane	ug/L	ND	1.0	12/03/19 15:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/03/19 15:31	
1,3-Dichloropropane	ug/L	ND	1.0	12/03/19 15:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/03/19 15:31	
2,2-Dichloropropane	ug/L	ND	1.0	12/03/19 15:31	
2-Butanone (MEK)	ug/L	ND	5.0	12/03/19 15:31	
2-Chlorotoluene	ug/L	ND	1.0	12/03/19 15:31	
2-Hexanone	ug/L	ND	5.0	12/03/19 15:31	
4-Chlorotoluene	ug/L	ND	1.0	12/03/19 15:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/03/19 15:31	
Acetone	ug/L	ND	25.0	12/03/19 15:31	
Benzene	ug/L	ND	1.0	12/03/19 15:31	
Bromobenzene	ug/L	ND	1.0	12/03/19 15:31	
Bromochloromethane	ug/L	ND	1.0	12/03/19 15:31	
Bromodichloromethane	ug/L	ND	1.0	12/03/19 15:31	
Bromoform	ug/L	ND	1.0	12/03/19 15:31	
Bromomethane	ug/L	ND	2.0	12/03/19 15:31	
Carbon tetrachloride	ug/L	ND	1.0	12/03/19 15:31	
Chlorobenzene	ug/L	ND	1.0	12/03/19 15:31	
Chloroethane	ug/L	ND	1.0	12/03/19 15:31	
Chloroform	ug/L	ND	5.0	12/03/19 15:31	
Chloromethane	ug/L	ND	1.0	12/03/19 15:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/03/19 15:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/03/19 15:31	
Dibromochloromethane	ug/L	ND	1.0	12/03/19 15:31	
Dibromomethane	ug/L	ND	1.0	12/03/19 15:31	
Dichlorodifluoromethane	ug/L	ND	1.0	12/03/19 15:31	

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## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

METHOD BLANK: 2748930                          Matrix: Water

Associated Lab Samples: 92454714002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/03/19 15:31	
Ethylbenzene	ug/L	ND	1.0	12/03/19 15:31	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/03/19 15:31	
m&p-Xylene	ug/L	ND	2.0	12/03/19 15:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/03/19 15:31	
Methylene Chloride	ug/L	ND	5.0	12/03/19 15:31	
Naphthalene	ug/L	ND	1.0	12/03/19 15:31	
o-Xylene	ug/L	ND	1.0	12/03/19 15:31	
p-Isopropyltoluene	ug/L	ND	1.0	12/03/19 15:31	
Styrene	ug/L	ND	1.0	12/03/19 15:31	
Tetrachloroethene	ug/L	ND	1.0	12/03/19 15:31	
Toluene	ug/L	ND	1.0	12/03/19 15:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/03/19 15:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/03/19 15:31	
Trichloroethene	ug/L	ND	1.0	12/03/19 15:31	
Trichlorofluoromethane	ug/L	ND	1.0	12/03/19 15:31	
Vinyl acetate	ug/L	ND	2.0	12/03/19 15:31	
Vinyl chloride	ug/L	ND	1.0	12/03/19 15:31	
Xylene (Total)	ug/L	ND	1.0	12/03/19 15:31	
1,2-Dichloroethane-d4 (S)	%	91	70-130	12/03/19 15:31	
4-Bromofluorobenzene (S)	%	95	70-130	12/03/19 15:31	
Toluene-d8 (S)	%	101	70-130	12/03/19 15:31	

LABORATORY CONTROL SAMPLE: 2748931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.6	99	70-130	
1,1,1-Trichloroethane	ug/L	50	54.2	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichloroethane	ug/L	50	53.4	107	70-130	
1,1-Dichloroethane	ug/L	50	54.5	109	70-130	
1,1-Dichloroethene	ug/L	50	52.2	104	70-130	
1,1-Dichloropropene	ug/L	50	52.8	106	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.3	109	70-130	
1,2,3-Trichloropropane	ug/L	50	52.5	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.1	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	70-130	
1,2-Dichlorobenzene	ug/L	50	46.8	94	70-130	
1,2-Dichloroethane	ug/L	50	53.0	106	70-130	
1,2-Dichloropropene	ug/L	50	55.0	110	70-130	
1,3-Dichlorobenzene	ug/L	50	45.9	92	70-130	
1,3-Dichloropropane	ug/L	50	53.1	106	70-131	
1,4-Dichlorobenzene	ug/L	50	45.5	91	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

LABORATORY CONTROL SAMPLE: 2748931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	52.7	105	69-130	
2-Butanone (MEK)	ug/L	100	119	119	64-135	
2-Chlorotoluene	ug/L	50	44.7	89	70-130	
2-Hexanone	ug/L	100	102	102	66-135	
4-Chlorotoluene	ug/L	50	44.5	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	70-130	
Acetone	ug/L	100	138	138	61-157	
Benzene	ug/L	50	51.3	103	70-130	
Bromobenzene	ug/L	50	46.9	94	70-130	
Bromochloromethane	ug/L	50	59.2	118	70-130	
Bromodichloromethane	ug/L	50	53.7	107	70-130	
Bromoform	ug/L	50	51.2	102	70-130	
Bromomethane	ug/L	50	46.9	94	38-130 IH	
Carbon tetrachloride	ug/L	50	51.7	103	70-130	
Chlorobenzene	ug/L	50	46.5	93	70-130	
Chloroethane	ug/L	50	38.8	78	37-142	
Chloroform	ug/L	50	56.9	114	70-130	
Chloromethane	ug/L	50	48.0	96	48-130	
cis-1,2-Dichloroethene	ug/L	50	51.8	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	51.8	104	70-130	
Dibromomethane	ug/L	50	55.5	111	70-130	
Dichlorodifluoromethane	ug/L	50	47.8	96	53-134	
Diisopropyl ether	ug/L	50	54.2	108	70-135	
Ethylbenzene	ug/L	50	46.4	93	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.0	102	68-132	
m&p-Xylene	ug/L	100	91.1	91	70-130	
Methyl-tert-butyl ether	ug/L	50	56.7	113	70-130	
Methylene Chloride	ug/L	50	50.8	102	67-132	
Naphthalene	ug/L	50	50.2	100	70-130	
o-Xylene	ug/L	50	46.0	92	70-130	
p-Isopropyltoluene	ug/L	50	47.1	94	70-130	
Styrene	ug/L	50	45.4	91	70-130	
Tetrachloroethene	ug/L	50	45.2	90	69-130	
Toluene	ug/L	50	47.1	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	70-130	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	48.9	98	63-130	
Vinyl acetate	ug/L	100	105	105	55-143	
Vinyl chloride	ug/L	50	52.6	105	70-131	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

MATRIX SPIKE SAMPLE:	2748933						
Parameter	Units	92455135005	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		20	23.0	115	73-134	
1,1,1-Trichloroethane	ug/L		20	26.1	130	82-143	
1,1,2,2-Tetrachloroethane	ug/L		20	22.5	112	70-136	
1,1,2-Trichloroethane	ug/L		20	24.8	124	70-135	
1,1-Dichloroethane	ug/L		20	25.2	126	70-139	
1,1-Dichloroethene	ug/L		20	25.7	128	70-154	
1,1-Dichloropropene	ug/L		20	24.9	125	70-149	
1,2,3-Trichlorobenzene	ug/L		20	18.6	93	70-135	
1,2,3-Trichloropropane	ug/L		20	23.5	118	71-137	
1,2,4-Trichlorobenzene	ug/L		20	19.3	97	73-140	
1,2-Dibromo-3-chloropropane	ug/L		20	20.6	103	65-134	
1,2-Dibromoethane (EDB)	ug/L		20	23.3	117	70-137	
1,2-Dichlorobenzene	ug/L		20	20.2	101	70-133	
1,2-Dichloroethane	ug/L		20	24.3	120	70-137	
1,2-Dichloropropane	ug/L		20	25.4	127	70-140	
1,3-Dichlorobenzene	ug/L		20	20.1	101	70-135	
1,3-Dichloropropane	ug/L		20	23.7	119	70-143	
1,4-Dichlorobenzene	ug/L		20	20.1	100	70-133	
2,2-Dichloropropane	ug/L		20	23.1	115	61-148	
2-Butanone (MEK)	ug/L		40	48.9	122	60-139	
2-Chlorotoluene	ug/L		20	20.3	102	70-144	
2-Hexanone	ug/L		40	41.7	104	65-138	
4-Chlorotoluene	ug/L		20	19.9	99	70-137	
4-Methyl-2-pentanone (MIBK)	ug/L		40	46.3	116	65-135	
Acetone	ug/L		40	48.5	121	60-148	
Benzene	ug/L	ND	20	23.9	120	70-151	
Bromobenzene	ug/L		20	20.8	104	70-136	
Bromochloromethane	ug/L		20	27.1	135	70-141	
Bromodichloromethane	ug/L		20	25.0	125	70-138	
Bromoform	ug/L		20	22.1	110	63-130	
Bromomethane	ug/L		20	17.5	87	15-152	
Carbon tetrachloride	ug/L		20	26.0	130	70-143	
Chlorobenzene	ug/L		20	21.4	107	70-138	
Chloroethane	ug/L		20	23.6	118	52-163	
Chloroform	ug/L		20	25.5	128	70-139	
Chloromethane	ug/L		20	20.1	100	41-139	
cis-1,2-Dichloroethene	ug/L		20	24.3	121	70-141	
cis-1,3-Dichloropropene	ug/L		20	24.1	120	70-137	
Dibromochloromethane	ug/L		20	22.5	113	70-134	
Dibromomethane	ug/L		20	25.9	129	70-138	
Dichlorodifluoromethane	ug/L		20	22.7	114	47-155	
Diisopropyl ether	ug/L		20	24.3	118	63-144	
Ethylbenzene	ug/L	ND	20	21.3	106	66-153	
Hexachloro-1,3-butadiene	ug/L		20	21.6	108	65-149	
m&p-Xylene	ug/L		40	41.5	104	69-152	
Methyl-tert-butyl ether	ug/L		20	127	160	54-156 M1	
Methylene Chloride	ug/L		20	23.9	120	42-159	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility  
Pace Project No.: 92454714

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MATRIX SPIKE SAMPLE: 2748933

Parameter	Units	92455135005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L		20	17.3	86	61-148	
o-Xylene	ug/L		20	20.6	103	70-148	
p-Isopropyltoluene	ug/L		20	21.1	106	70-146	
Styrene	ug/L		20	18.3	91	70-135	
Tetrachloroethene	ug/L		20	21.6	108	59-143	
Toluene	ug/L		ND	20	112	59-148	
trans-1,2-Dichloroethene	ug/L		20	23.7	118	70-146	
trans-1,3-Dichloropropene	ug/L		20	22.9	115	70-135	
Trichloroethene	ug/L		20	24.0	120	70-147	
Trichlorofluoromethane	ug/L		20	25.3	127	70-148	
Vinyl acetate	ug/L		40	43.5	109	49-151	
Vinyl chloride	ug/L		20	25.4	127	70-156	
Xylene (Total)	ug/L		ND	60	104	63-158	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				100	70-130	

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SAMPLE DUPLICATE: 2748932

Parameter	Units	92455135004 Result	Dup Result	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L		ND	30	
1,1,1-Trichloroethane	ug/L		ND	30	
1,1,2,2-Tetrachloroethane	ug/L		ND	30	
1,1,2-Trichloroethane	ug/L		ND	30	
1,1-Dichloroethane	ug/L		ND	30	
1,1-Dichloroethene	ug/L		ND	30	
1,1-Dichloropropene	ug/L		ND	30	
1,2,3-Trichlorobenzene	ug/L		ND	30	
1,2,3-Trichloropropane	ug/L		ND	30	
1,2,4-Trichlorobenzene	ug/L		ND	30	
1,2-Dibromo-3-chloropropane	ug/L		ND	30	
1,2-Dibromoethane (EDB)	ug/L		ND	30	
1,2-Dichlorobenzene	ug/L		ND	30	
1,2-Dichloroethane	ug/L		ND	30	
1,2-Dichloropropane	ug/L		ND	30	
1,3-Dichlorobenzene	ug/L		ND	30	
1,3-Dichloropropane	ug/L		ND	30	
1,4-Dichlorobenzene	ug/L		ND	30	
2,2-Dichloropropane	ug/L		ND	30	
2-Butanone (MEK)	ug/L		ND	30	
2-Chlorotoluene	ug/L		ND	30	
2-Hexanone	ug/L		ND	30	
4-Chlorotoluene	ug/L		ND	30	
4-Methyl-2-pentanone (MIBK)	ug/L		ND	30	
Acetone	ug/L		ND	30	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

SAMPLE DUPLICATE: 2748932

Parameter	Units	92455135004 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L		ND		30	
Bromochloromethane	ug/L		ND		30	
Bromodichloromethane	ug/L		ND		30	
Bromoform	ug/L		ND		30	
Bromomethane	ug/L		ND		30	
Carbon tetrachloride	ug/L		ND		30	
Chlorobenzene	ug/L		ND		30	
Chloroethane	ug/L		ND		30	
Chloroform	ug/L		ND		30	
Chloromethane	ug/L		ND		30	
cis-1,2-Dichloroethene	ug/L		ND		30	
cis-1,3-Dichloropropene	ug/L		ND		30	
Dibromochloromethane	ug/L		ND		30	
Dibromomethane	ug/L		ND		30	
Dichlorodifluoromethane	ug/L		ND		30	
Diisopropyl ether	ug/L		ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L		ND		30	
m&p-Xylene	ug/L		ND		30	
Methyl-tert-butyl ether	ug/L		ND		30	
Methylene Chloride	ug/L		ND		30	
Naphthalene	ug/L		ND		30	
o-Xylene	ug/L		ND		30	
p-Isopropyltoluene	ug/L		ND		30	
Styrene	ug/L		ND		30	
Tetrachloroethene	ug/L		ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L		ND		30	
trans-1,3-Dichloropropene	ug/L		ND		30	
Trichloroethene	ug/L		ND		30	
Trichlorofluoromethane	ug/L		ND		30	
Vinyl acetate	ug/L		ND		30	
Vinyl chloride	ug/L		ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	91	95			
4-Bromofluorobenzene (S)	%	96	97			
Toluene-d8 (S)	%	102	102			

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

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

QC Batch: 511329 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92454714001, 92454714005

METHOD BLANK: 2743104 Matrix: Water

Associated Lab Samples: 92454714001, 92454714005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/22/19 18:39	
1,2-Dichloroethane-d4 (S)	%	91	50-150	11/22/19 18:39	
Toluene-d8 (S)	%	105	50-150	11/22/19 18:39	

LABORATORY CONTROL SAMPLE: 2743105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane-d4 (S)	%			97	50-150	
Toluene-d8 (S)	%			108	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743457 2743458

Parameter	Units	92454719006 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
			Spike Conc.	Spike Conc.								
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	18.0	19.7	86	94	50-150	9	30	
1,2-Dichloroethane-d4 (S)	%						94	94	50-150		30	
Toluene-d8 (S)	%						89	88	50-150		30	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Facility

Pace Project No.: 92454714

QC Batch: 511422 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92454714002, 92454714003, 92454714004

METHOD BLANK: 2743463 Matrix: Water

Associated Lab Samples: 92454714002, 92454714003, 92454714004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/23/19 17:35	
1,2-Dichloroethane-d4 (S)	%	96	50-150	11/23/19 17:35	
Toluene-d8 (S)	%	94	50-150	11/23/19 17:35	

LABORATORY CONTROL SAMPLE: 2743464

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)	%			89	50-150	
Toluene-d8 (S)	%			96	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743465 2743466

Parameter	Units	92454719003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.2	19.1	97	91	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						97	95	50-150		30	
Toluene-d8 (S)	%						87	89	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: Former Kop Flex Facility  
 Pace Project No.: 92454714

---

### 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.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Kop Flex Facility  
 Pace Project No.: 92454714

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92454714001	RW-3S	EPA 8260B	512103		
92454714002	RW-2S	EPA 8260B	512721		
92454714003	RW-1S	EPA 8260B	512103		
92454714004	RW-2D	EPA 8260B	512362		
92454714005	RW-1D	EPA 8260B	512363		
92454714001	RW-3S	EPA 8260B Mod.	511329		
92454714002	RW-2S	EPA 8260B Mod.	511422		
92454714003	RW-1S	EPA 8260B Mod.	511422		
92454714004	RW-2D	EPA 8260B Mod.	511422		
92454714005	RW-1D	EPA 8260B Mod.	511329		

## 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:

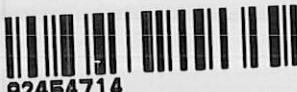
Asheville  Eden Greenwood Huntersville Raleigh Mechanicsville Sample Condition  
Upon Receipt

Client Name:

WSP

Project #:

WO# : 92454714

Courier:  
 Commercial Fed Ex     UPS     USPS     Client  
 Pace     Other: \_\_\_\_\_Custody Seal Present?  Yes     No    Seals Intact?  Yes     No

Date/Initials Person Examining Contents: YCO 11/24/19

Packing Material:  Bubble Wrap     Bubble Bags     None     Other

Biological Tissue Frozen?

Thermometer:  IR Gun ID: 92T058    Type of Ice:  Wet     Blue     None Yes     No     N/A

Cooler Temp (°C): 3.2, 1.4 Correction Factor: Add/Subtract (°C) 0.0°C

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.2, 1.4

 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)?  
 Yes     NoDid 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 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			9.
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
			10.
			11.

## 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: 11/22

PD

Project Manager SRF Review: \_\_\_\_\_

Date: 11/22

PD



\*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# : 92454714

PM: PTE Due Date: 12/02/19  
CLIENT: 92-WSP

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP3U-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-)	WGFL-U-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-)	DGBH-40 mL VOA HCl (N/A)	VGSU-40 mL VOA Na2S2O3 (N/A)	VGAU-40 mL VOA Urp (N/A)	DGSP-40 mL VOA H3PO4 (N/A)	VDAK (6 vials per kit) 5035 kit (N/A)	VJGK (3 vials per kit) VPH/Gaskit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH4)2S04 (9.3-9.7)	AGBU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DGBU-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			

#### pH Adjustment Log for Preserved Samples

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

System #1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: WSP	Report To: Cresci, Chris	Address: 13530 Dulles Technology Drive Suite 300, Herndon, VA 20171	Copy To:	Attention: Company Name:	
Email:  Phone: Fax	Purchase Order #:	Address: Project Name:	Pace Quote: Pace Project Manager:	Pace Profile #:	Regulatory Agency State / Location
Requested Due Date:  "D"	Project #:	Former Kop-Flex Facility	taylor.ezell@pacealabs.com,	4362-1	MD
<b>SAMPLE ID</b> One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique					
ITEM #	CODE	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)
1	DW	Drinking Water	WT	Water	
2	WW	Waste Water	WW	Product	
3	SL	Solids	OL	Oil	
4	WP	Wipe	AR	Air	
5	OT	Other	TS	Tissue	
<b>COLLECTED</b> DATE      TIME      DATE      TIME					
<b>Preservatives</b> SAMPLE TEMP AT COLLECTION # OF CONTAINERS					
Unpreserved      X H2SO4      X HNO3      X HCl      X NaOH      X Na2S2O3      X Methanol      X Other      X					
<b>Analyses Test</b> VOC by 8260 & 8260SIM      X Trip BLANK      X					
Residual Chlorine (Y/N) Q2454714					
201 202 203 time = 1320 201 time = 1120 202					
<b>ADDITIONAL COMMENTS</b> RELINQUISHED BY / AFFILIATION      DATE      TIME      ACCEPTED BY / AFFILIATION      DATE      TIME      SAMPLE CONDITIONS					
Sample names are <i>Moloy</i> MLOF 1400 Sealed, <i>Half Surface</i> <i>Half Surface</i> 1424H 932 E.4 Y Y Y					
PW - #S <i>the letters</i> "S"					
or PW - #D the letter "D"					
SAMPLE NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:	
<i>Moloy</i>					
TEMP in C		DATE Signed: 11/10/15			
Received on ice (Y/N)					
Custody Sealed Cooler (Y/N)					
Samples Intact (Y/N)					

## **MONITORING WELLS**

December 02, 2019

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

RE: Project: Former Kop Flex Onsite #1  
Pace Project No.: 92454719

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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: Former Kop Flex Onsite #1  
Pace Project No.: 92454719

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### **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: Former Kop Flex Onsite #1  
Pace Project No.: 92454719

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92454719001	Trip Blank B	Water	11/19/19 00:00	11/21/19 09:32
92454719002	MW-43	Water	11/19/19 09:25	11/21/19 09:32
92454719003	MW-39	Water	11/19/19 09:40	11/21/19 09:32
92454719004	MW-42	Water	11/19/19 09:55	11/21/19 09:32
92454719005	MW-18	Water	11/19/19 10:05	11/21/19 09:32
92454719006	MW-40D	Water	11/19/19 10:15	11/21/19 09:32
92454719007	MW-38R	Water	11/19/19 10:50	11/21/19 09:32
92454719008	MW-21D	Water	11/19/19 11:10	11/21/19 09:32
92454719009	MW-01D	Water	11/19/19 13:10	11/21/19 09:32
92454719010	MW-22D	Water	11/19/19 13:35	11/21/19 09:32
92454719011	MW-20	Water	11/19/19 13:45	11/21/19 09:32
92454719012	MW-04	Water	11/19/19 13:55	11/21/19 09:32
92454719013	MW-09	Water	11/19/19 14:18	11/21/19 09:32
92454719014	DUP 111919	Water	11/19/19 08:00	11/21/19 09:32
92454719015	MW-23D	Water	11/19/19 14:25	11/21/19 09:32
92454719016	MW-16D	Water	11/19/19 14:45	11/21/19 09:32
92454719017	MW-16	Water	11/19/19 15:20	11/21/19 09:32
92454719018	MW-05R	Water	11/19/19 15:40	11/21/19 09:32

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## SAMPLE ANALYTE COUNT

Project: Former Kop Flex Onsite #1  
Pace Project No.: 92454719

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92454719001	Trip Blank B	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719002	MW-43	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719003	MW-39	EPA 8260B	DLK	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719004	MW-42	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719005	MW-18	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719006	MW-40D	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719007	MW-38R	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719008	MW-21D	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719009	MW-01D	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719010	MW-22D	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719011	MW-20	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719012	MW-04	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719013	MW-09	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719014	DUP 111919	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719015	MW-23D	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719016	MW-16D	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719017	MW-16	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C
92454719018	MW-05R	EPA 8260B	CL	63	PASI-C
		EPA 8260B Mod.	LMB	3	PASI-C

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: Trip Blank B	Lab ID: 92454719001	Collected: 11/19/19 00:00	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 09:52	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 09:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 09:52	108-86-1	
Bromoform	ND	ug/L	1.0	1		11/27/19 09:52	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 09:52	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 09:52	124-48-1	
Bromomethane	ND	ug/L	2.0	1		11/27/19 09:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 09:52	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 09:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 09:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 09:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 09:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 09:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 09:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 09:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 09:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 09:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 09:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 09:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 09:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 09:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 09:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 09:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 09:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 09:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/27/19 09:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 09:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 09:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 09:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 09:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 09:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 09:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 09:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 09:52	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 09:52	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 09:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 09:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 09:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 09:52	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 09:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 09:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 09:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 09:52	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 09:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 09:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 09:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 09:52	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: Trip Blank B	Lab ID: 92454719001	Collected: 11/19/19 00:00	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 09:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 09:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 09:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 09:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 09:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 09:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 09:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 09:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 09:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 09:52	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 09:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 09:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 09:52	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/27/19 09:52	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/27/19 09:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/27/19 09:52	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/22/19 19:18	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	50-150	1		11/22/19 19:18	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		11/22/19 19:18	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-43	Lab ID: 92454719002	Collected: 11/19/19 09:25	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		11/27/19 20:52	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 20:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 20:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 20:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 20:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 20:52	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 20:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 20:52	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 20:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 20:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 20:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 20:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 20:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 20:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 20:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 20:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 20:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 20:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 20:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 20:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 20:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 20:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 20:52	75-71-8	
1,1-Dichloroethane	4.3	ug/L	1.0	1		11/27/19 20:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 20:52	107-06-2	
1,1-Dichloroethene	48.5	ug/L	1.0	1		11/27/19 20:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 20:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 20:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 20:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 20:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 20:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 20:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 20:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 20:52	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 20:52	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 20:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 20:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 20:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 20:52	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 20:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 20:52	108-10-1	
Methyl-tert-butyl ether	3.4	ug/L	1.0	1		11/27/19 20:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 20:52	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 20:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 20:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 20:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 20:52	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-43	Lab ID: 92454719002	Collected: 11/19/19 09:25	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 20:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 20:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 20:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 20:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 20:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 20:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 20:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 20:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 20:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 20:52	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 20:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 20:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 20:52	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	94	%	70-130	1		11/27/19 20:52	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		11/27/19 20:52	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		11/27/19 20:52	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>55.2</b>	ug/L	2.0	1		11/22/19 21:17	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		11/22/19 21:17	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		11/22/19 21:17	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-39	Lab ID: 92454719003	Collected: 11/19/19 09:40	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 14:14	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 14:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 14:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 14:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 14:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 14:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 14:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 14:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 14:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 14:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 14:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 14:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 14:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 14:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 14:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 14:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 14:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 14:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 14:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 14:14	75-71-8	L1
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 14:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 14:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/27/19 14:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 14:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 14:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 14:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 14:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 14:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 14:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 14:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 14:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 14:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 14:14	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 14:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 14:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 14:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 14:14	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-39	Lab ID: 92454719003	Collected: 11/19/19 09:40	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 14:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 14:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 14:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 14:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 14:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 14:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 14:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 14:14	75-01-4	L1
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 14:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 14:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 14:14	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	106	%	70-130	1		11/27/19 14:14	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/27/19 14:14	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		11/27/19 14:14	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/23/19 20:53	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	50-150	1		11/23/19 20:53	17060-07-0	
Toluene-d8 (S)	88	%	50-150	1		11/23/19 20:53	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-42	Lab ID: 92454719004	Collected: 11/19/19 09:55	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		11/27/19 10:11	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 10:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 10:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 10:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 10:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 10:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 10:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 10:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 10:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 10:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 10:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 10:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 10:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 10:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 10:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 10:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 10:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 10:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 10:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 10:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 10:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 10:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/27/19 10:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 10:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 10:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 10:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 10:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 10:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 10:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 10:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 10:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 10:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 10:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 10:11	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 10:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 10:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 10:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 10:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 10:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 10:11	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 10:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 10:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 10:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 10:11	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-42	Lab ID: 92454719004	Collected: 11/19/19 09:55	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 10:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 10:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 10:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 10:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 10:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 10:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 10:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 10:11	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 10:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 10:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 10:11	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/27/19 10:11	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/27/19 10:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/27/19 10:11	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>5.6</b>	ug/L	2.0	1		11/22/19 21:57	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	50-150	1		11/22/19 21:57	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		11/22/19 21:57	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-18	Lab ID: 92454719005	Collected: 11/19/19 10:05	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		11/27/19 10:29	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 10:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 10:29	108-86-1	
Bromoform	ND	ug/L	1.0	1		11/27/19 10:29	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 10:29	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 10:29	124-48-1	
Bromomethane	ND	ug/L	2.0	1		11/27/19 10:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 10:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 10:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 10:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 10:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 10:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 10:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 10:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 10:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 10:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 10:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 10:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 10:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 10:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 10:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 10:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/27/19 10:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 10:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 10:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 10:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 10:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 10:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 10:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 10:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 10:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 10:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 10:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 10:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 10:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 10:29	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 10:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 10:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 10:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 10:29	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 10:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 10:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 10:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 10:29	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-18	Lab ID: 92454719005	Collected: 11/19/19 10:05	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 10:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 10:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 10:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 10:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 10:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 10:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 10:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 10:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 10:29	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 10:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 10:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 10:29	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		11/27/19 10:29	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/27/19 10:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/27/19 10:29	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/22/19 22:17	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		11/22/19 22:17	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		11/22/19 22:17	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-40D	Lab ID: 92454719006	Collected: 11/19/19 10:15	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 12:56	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 12:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 12:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 12:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 12:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 12:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 12:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 12:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 12:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 12:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 12:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 12:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 12:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 12:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 12:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 12:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 12:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 12:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 12:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 12:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 12:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 12:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/27/19 12:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 12:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 12:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 12:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 12:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 12:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 12:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 12:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 12:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 12:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 12:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 12:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 12:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 12:56	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 12:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 12:56	108-10-1	
Methyl-tert-butyl ether	<b>1.6</b>	ug/L	1.0	1		11/27/19 12:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 12:56	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 12:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 12:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 12:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 12:56	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-40D	Lab ID: 92454719006	Collected: 11/19/19 10:15	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 12:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 12:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 12:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 12:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 12:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 12:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 12:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 12:56	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 12:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 12:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 12:56	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-130	1		11/27/19 12:56	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/27/19 12:56	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		11/27/19 12:56	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		11/22/19 22:37	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	50-150	1		11/22/19 22:37	17060-07-0	
Toluene-d8 (S)	108	%	50-150	1		11/22/19 22:37	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-38R	Lab ID: 92454719007	Collected: 11/19/19 10:50	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 13:14	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 13:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 13:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 13:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 13:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 13:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 13:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 13:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 13:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 13:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 13:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 13:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 13:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 13:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 13:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 13:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 13:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 13:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 13:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 13:14	75-71-8	
1,1-Dichloroethane	7.7	ug/L	1.0	1		11/27/19 13:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 13:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/27/19 13:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 13:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 13:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 13:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 13:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 13:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 13:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 13:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 13:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 13:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 13:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 13:14	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 13:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 13:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 13:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 13:14	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-38R	Lab ID: 92454719007	Collected: 11/19/19 10:50	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 13:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 13:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 13:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 13:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 13:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 13:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 13:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 13:14	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 13:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 13:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 13:14	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/27/19 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		11/27/19 13:14	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/27/19 13:14	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>51.5</b>	ug/L	2.0	1		11/22/19 22:56	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		11/22/19 22:56	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		11/22/19 22:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-21D	Lab ID: 92454719008	Collected: 11/19/19 11:10	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>		Analytical Method: EPA 8260B						
Acetone	ND	ug/L	25.0	1		11/27/19 13:32	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 13:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 13:32	108-86-1	
Bromoform	ND	ug/L	1.0	1		11/27/19 13:32	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 13:32	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 13:32	124-48-1	
Bromomethane	ND	ug/L	2.0	1		11/27/19 13:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 13:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 13:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 13:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 13:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 13:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 13:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 13:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 13:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 13:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 13:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 13:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 13:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 13:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 13:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 13:32	107-06-2	
1,1-Dichloroethene	4.1	ug/L	1.0	1		11/27/19 13:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 13:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 13:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 13:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 13:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 13:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 13:32	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 13:32	108-10-1	
Methyl-tert-butyl ether	1.8	ug/L	1.0	1		11/27/19 13:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 13:32	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 13:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 13:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 13:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 13:32	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-21D	Lab ID: 92454719008	Collected: 11/19/19 11:10	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 13:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 13:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 13:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 13:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 13:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 13:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 13:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 13:32	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 13:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 13:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 13:32	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		11/27/19 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/27/19 13:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/27/19 13:32	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>4.1</b>	ug/L	2.0	1		11/22/19 23:16	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	97	%	50-150	1		11/22/19 23:16	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		11/22/19 23:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-01D	Lab ID: 92454719009	Collected: 11/19/19 13:10	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 13:51	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 13:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 13:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 13:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 13:51	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 13:51	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 13:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 13:51	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 13:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 13:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 13:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 13:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 13:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 13:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 13:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 13:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 13:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 13:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 13:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 13:51	75-71-8	
1,1-Dichloroethane	<b>3.4</b>	ug/L	1.0	1		11/27/19 13:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 13:51	107-06-2	
1,1-Dichloroethene	<b>17.7</b>	ug/L	1.0	1		11/27/19 13:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 13:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 13:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 13:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 13:51	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 13:51	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 13:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 13:51	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 13:51	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 13:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 13:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 13:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 13:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 13:51	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 13:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 13:51	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-01D	Lab ID: 92454719009	Collected: 11/19/19 13:10	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 13:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 13:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 13:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 13:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 13:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 13:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 13:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 13:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 13:51	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 13:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 13:51	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 13:51	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/27/19 13:51	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		11/27/19 13:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/27/19 13:51	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>17.9</b>	ug/L	2.0	1		11/22/19 23:36	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	93	%	50-150	1		11/22/19 23:36	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		11/22/19 23:36	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-22D	Lab ID: 92454719010	Collected: 11/19/19 13:35	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 14:09	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 14:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 14:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 14:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 14:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 14:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 14:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 14:09	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 14:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 14:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 14:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 14:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 14:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 14:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 14:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 14:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 14:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 14:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 14:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 14:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 14:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 14:09	107-06-2	
1,1-Dichloroethene	<b>5.6</b>	ug/L	1.0	1		11/27/19 14:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 14:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 14:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 14:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 14:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 14:09	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 14:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 14:09	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 14:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 14:09	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 14:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 14:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 14:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 14:09	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 14:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 14:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 14:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 14:09	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-22D	Lab ID: 92454719010	Collected: 11/19/19 13:35	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 14:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 14:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 14:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 14:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 14:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 14:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 14:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 14:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 14:09	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 14:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 14:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 14:09	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	101	%	70-130	1		11/27/19 14:09	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		11/27/19 14:09	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/27/19 14:09	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>4.9</b>	ug/L	2.0	1		11/22/19 23:56	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		11/22/19 23:56	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		11/22/19 23:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-20	Lab ID: 92454719011	Collected: 11/19/19 13:45	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	50.0	2		11/27/19 22:40	67-64-1	
Benzene	ND	ug/L	2.0	2		11/27/19 22:40	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		11/27/19 22:40	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		11/27/19 22:40	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		11/27/19 22:40	75-27-4	
Bromoform	ND	ug/L	2.0	2		11/27/19 22:40	75-25-2	
Bromomethane	ND	ug/L	4.0	2		11/27/19 22:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		11/27/19 22:40	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		11/27/19 22:40	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		11/27/19 22:40	108-90-7	
Chloroethane	ND	ug/L	2.0	2		11/27/19 22:40	75-00-3	
Chloroform	ND	ug/L	10.0	2		11/27/19 22:40	67-66-3	
Chloromethane	ND	ug/L	2.0	2		11/27/19 22:40	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		11/27/19 22:40	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		11/27/19 22:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	2		11/27/19 22:40	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		11/27/19 22:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		11/27/19 22:40	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		11/27/19 22:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		11/27/19 22:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		11/27/19 22:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		11/27/19 22:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		11/27/19 22:40	75-71-8	
1,1-Dichloroethane	175	ug/L	2.0	2		11/27/19 22:40	75-34-3	
1,2-Dichloroethane	7.5	ug/L	2.0	2		11/27/19 22:40	107-06-2	
1,1-Dichloroethene	244	ug/L	2.0	2		11/27/19 22:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		11/27/19 22:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		11/27/19 22:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		11/27/19 22:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		11/27/19 22:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		11/27/19 22:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		11/27/19 22:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		11/27/19 22:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		11/27/19 22:40	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		11/27/19 22:40	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		11/27/19 22:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		11/27/19 22:40	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		11/27/19 22:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		11/27/19 22:40	99-87-6	
Methylene Chloride	ND	ug/L	10.0	2		11/27/19 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		11/27/19 22:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		11/27/19 22:40	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		11/27/19 22:40	91-20-3	
Styrene	ND	ug/L	2.0	2		11/27/19 22:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		11/27/19 22:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		11/27/19 22:40	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		11/27/19 22:40	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-20	Lab ID: 92454719011	Collected: 11/19/19 13:45	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	2.0	2		11/27/19 22:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		11/27/19 22:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		11/27/19 22:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		11/27/19 22:40	71-55-6	
1,1,2-Trichloroethane	<b>2.1</b>	ug/L	2.0	2		11/27/19 22:40	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		11/27/19 22:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		11/27/19 22:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		11/27/19 22:40	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		11/27/19 22:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		11/27/19 22:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		11/27/19 22:40	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		11/27/19 22:40	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		11/27/19 22:40	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	2		11/27/19 22:40	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	2		11/27/19 22:40	17060-07-0	
Toluene-d8 (S)	103	%	70-130	2		11/27/19 22:40	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>1220</b>	ug/L	40.0	20		11/23/19 22:13	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	50-150	20		11/23/19 22:13	17060-07-0	
Toluene-d8 (S)	87	%	50-150	20		11/23/19 22:13	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-04	Lab ID: 92454719012	Collected: 11/19/19 13:55	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 21:28	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 21:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 21:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 21:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 21:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 21:28	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 21:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 21:28	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 21:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 21:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 21:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 21:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 21:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 21:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 21:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 21:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 21:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 21:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 21:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 21:28	75-71-8	
1,1-Dichloroethane	<b>45.1</b>	ug/L	1.0	1		11/27/19 21:28	75-34-3	
1,2-Dichloroethane	<b>1.1</b>	ug/L	1.0	1		11/27/19 21:28	107-06-2	
1,1-Dichloroethene	<b>126</b>	ug/L	1.0	1		11/27/19 21:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 21:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 21:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 21:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 21:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 21:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 21:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 21:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 21:28	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 21:28	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 21:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 21:28	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 21:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 21:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 21:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 21:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 21:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 21:28	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 21:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 21:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 21:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 21:28	127-18-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-04	Lab ID: 92454719012	Collected: 11/19/19 13:55	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 21:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 21:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 21:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 21:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 21:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 21:28	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 21:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 21:28	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 21:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 21:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 21:28	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/27/19 21:28	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		11/27/19 21:28	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/27/19 21:28	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>94.2</b>	ug/L	5.0	2.5		11/23/19 22:53	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	50-150	2.5		11/23/19 22:53	17060-07-0	
Toluene-d8 (S)	85	%	50-150	2.5		11/23/19 22:53	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-09	Lab ID: 92454719013	Collected: 11/19/19 14:18	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 21:10	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 21:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 21:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 21:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 21:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 21:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 21:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 21:10	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 21:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 21:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 21:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 21:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 21:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 21:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 21:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 21:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 21:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 21:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 21:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 21:10	75-71-8	
1,1-Dichloroethane	<b>2.6</b>	ug/L	1.0	1		11/27/19 21:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 21:10	107-06-2	
1,1-Dichloroethene	<b>48.7</b>	ug/L	1.0	1		11/27/19 21:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 21:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 21:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 21:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 21:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 21:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 21:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 21:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 21:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 21:10	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 21:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 21:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 21:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 21:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 21:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 21:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 21:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 21:10	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 21:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 21:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 21:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 21:10	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-09	Lab ID: 92454719013	Collected: 11/19/19 14:18	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 21:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 21:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 21:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 21:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 21:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 21:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 21:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 21:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 21:10	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 21:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 21:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 21:10	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/27/19 21:10	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/27/19 21:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		11/27/19 21:10	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>24.4</b>	ug/L	2.0	1		11/23/19 00:57	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		11/23/19 00:57	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		11/23/19 00:57	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: DUP 111919	Lab ID: 92454719014	Collected: 11/19/19 08:00	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 23:33	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 23:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 23:33	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 23:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 23:33	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 23:33	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 23:33	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 23:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 23:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 23:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 23:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 23:33	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 23:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 23:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 23:33	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 23:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 23:33	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 23:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 23:33	75-71-8	
1,1-Dichloroethane	<b>26.6</b>	ug/L	1.0	1		11/27/19 23:33	75-34-3	
1,2-Dichloroethane	<b>1.8</b>	ug/L	1.0	1		11/27/19 23:33	107-06-2	
1,1-Dichloroethene	<b>142</b>	ug/L	1.0	1		11/27/19 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 23:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 23:33	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 23:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 23:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 23:33	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 23:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 23:33	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 23:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 23:33	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 23:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 23:33	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: DUP 111919	Lab ID: 92454719014	Collected: 11/19/19 08:00	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 23:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 23:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 23:33	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 23:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 23:33	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 23:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 23:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 23:33	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/27/19 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		11/27/19 23:33	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		11/27/19 23:33	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>119</b>	ug/L	5.0	2.5		11/23/19 23:13	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	50-150	2.5		11/23/19 23:13	17060-07-0	
Toluene-d8 (S)	87	%	50-150	2.5		11/23/19 23:13	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-23D	Lab ID: 92454719015	Collected: 11/19/19 14:25	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 22:22	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 22:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 22:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 22:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 22:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 22:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 22:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 22:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 22:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 22:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 22:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 22:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 22:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 22:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 22:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 22:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 22:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 22:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 22:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 22:22	75-71-8	
1,1-Dichloroethane	<b>27.7</b>	ug/L	1.0	1		11/27/19 22:22	75-34-3	
1,2-Dichloroethane	<b>1.4</b>	ug/L	1.0	1		11/27/19 22:22	107-06-2	
1,1-Dichloroethene	<b>107</b>	ug/L	1.0	1		11/27/19 22:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 22:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 22:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 22:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 22:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 22:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 22:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 22:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 22:22	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 22:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 22:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 22:22	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 22:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 22:22	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 22:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 22:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 22:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 22:22	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 22:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 22:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 22:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 22:22	127-18-4	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-23D	Lab ID: 92454719015	Collected: 11/19/19 14:25	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 22:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 22:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 22:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 22:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 22:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 22:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 22:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 22:22	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 22:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 22:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 22:22	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		11/27/19 22:22	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/27/19 22:22	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		11/27/19 22:22	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>109</b>	ug/L	4.0	2		11/23/19 23:33	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	96	%	50-150	2		11/23/19 23:33	17060-07-0	
Toluene-d8 (S)	88	%	50-150	2		11/23/19 23:33	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-16D	Lab ID: 92454719016	Collected: 11/19/19 14:45	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 22:04	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 22:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 22:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 22:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 22:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 22:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 22:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 22:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 22:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 22:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 22:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 22:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 22:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 22:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 22:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 22:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 22:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 22:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 22:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 22:04	75-71-8	
1,1-Dichloroethane	<b>25.6</b>	ug/L	1.0	1		11/27/19 22:04	75-34-3	
1,2-Dichloroethane	<b>1.7</b>	ug/L	1.0	1		11/27/19 22:04	107-06-2	
1,1-Dichloroethene	<b>133</b>	ug/L	1.0	1		11/27/19 22:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 22:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 22:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 22:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 22:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 22:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 22:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 22:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 22:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 22:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 22:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 22:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 22:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 22:04	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 22:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 22:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 22:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 22:04	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 22:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 22:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 22:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 22:04	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-16D	Lab ID: 92454719016	Collected: 11/19/19 14:45	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 22:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 22:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 22:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 22:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 22:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 22:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 22:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 22:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 22:04	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 22:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 22:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 22:04	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	1		11/27/19 22:04	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		11/27/19 22:04	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/27/19 22:04	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>140</b>	ug/L	5.0	2.5		11/23/19 23:53	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	95	%	50-150	2.5		11/23/19 23:53	17060-07-0	
Toluene-d8 (S)	86	%	50-150	2.5		11/23/19 23:53	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-16	Lab ID: 92454719017	Collected: 11/19/19 15:20	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	250	10		11/27/19 23:15	67-64-1	
Benzene	ND	ug/L	10.0	10		11/27/19 23:15	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		11/27/19 23:15	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		11/27/19 23:15	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		11/27/19 23:15	75-27-4	
Bromoform	ND	ug/L	10.0	10		11/27/19 23:15	75-25-2	
Bromomethane	ND	ug/L	20.0	10		11/27/19 23:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		11/27/19 23:15	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		11/27/19 23:15	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		11/27/19 23:15	108-90-7	
Chloroethane	<b>23.4</b>	ug/L	10.0	10		11/27/19 23:15	75-00-3	
Chloroform	ND	ug/L	50.0	10		11/27/19 23:15	67-66-3	
Chloromethane	ND	ug/L	10.0	10		11/27/19 23:15	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		11/27/19 23:15	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		11/27/19 23:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	50.0	10		11/27/19 23:15	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		11/27/19 23:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		11/27/19 23:15	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		11/27/19 23:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		11/27/19 23:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		11/27/19 23:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		11/27/19 23:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		11/27/19 23:15	75-71-8	
1,1-Dichloroethane	<b>608</b>	ug/L	10.0	10		11/27/19 23:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		11/27/19 23:15	107-06-2	
1,1-Dichloroethene	<b>1440</b>	ug/L	10.0	10		11/27/19 23:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		11/27/19 23:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		11/27/19 23:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		11/27/19 23:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		11/27/19 23:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		11/27/19 23:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		11/27/19 23:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		11/27/19 23:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		11/27/19 23:15	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		11/27/19 23:15	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		11/27/19 23:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		11/27/19 23:15	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		11/27/19 23:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		11/27/19 23:15	99-87-6	
Methylene Chloride	ND	ug/L	50.0	10		11/27/19 23:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		11/27/19 23:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		11/27/19 23:15	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		11/27/19 23:15	91-20-3	
Styrene	ND	ug/L	10.0	10		11/27/19 23:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		11/27/19 23:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		11/27/19 23:15	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		11/27/19 23:15	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-16	Lab ID: 92454719017	Collected: 11/19/19 15:20	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	10.0	10		11/27/19 23:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		11/27/19 23:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		11/27/19 23:15	120-82-1	
1,1,1-Trichloroethane	314	ug/L	10.0	10		11/27/19 23:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		11/27/19 23:15	79-00-5	
Trichloroethene	18.3	ug/L	10.0	10		11/27/19 23:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		11/27/19 23:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		11/27/19 23:15	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		11/27/19 23:15	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		11/27/19 23:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	10		11/27/19 23:15	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		11/27/19 23:15	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		11/27/19 23:15	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	95	%	70-130	10		11/27/19 23:15	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	10		11/27/19 23:15	17060-07-0	
Toluene-d8 (S)	104	%	70-130	10		11/27/19 23:15	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	81.9	ug/L	2.0	1		11/23/19 02:16	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	104	%	50-150	1		11/23/19 02:16	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		11/23/19 02:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-05R	Lab ID: 92454719018	Collected: 11/19/19 15:40	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	25.0	1		11/27/19 12:01	67-64-1	
Benzene	ND	ug/L	1.0	1		11/27/19 12:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/27/19 12:01	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/27/19 12:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/27/19 12:01	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/27/19 12:01	75-25-2	
Bromomethane	ND	ug/L	2.0	1		11/27/19 12:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		11/27/19 12:01	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		11/27/19 12:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/27/19 12:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/27/19 12:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/27/19 12:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/27/19 12:01	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 12:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/27/19 12:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/27/19 12:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/27/19 12:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/27/19 12:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/27/19 12:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/27/19 12:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/27/19 12:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		11/27/19 12:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/27/19 12:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 12:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/27/19 12:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 12:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/27/19 12:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/27/19 12:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/27/19 12:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 12:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/27/19 12:01	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		11/27/19 12:01	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		11/27/19 12:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/27/19 12:01	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		11/27/19 12:01	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/27/19 12:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/27/19 12:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		11/27/19 12:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/27/19 12:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		11/27/19 12:01	91-20-3	
Styrene	ND	ug/L	1.0	1		11/27/19 12:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 12:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/27/19 12:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/27/19 12:01	127-18-4	

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## ANALYTICAL RESULTS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

Sample: MW-05R	Lab ID: 92454719018	Collected: 11/19/19 15:40	Received: 11/21/19 09:32	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level</b>	Analytical Method: EPA 8260B							
Toluene	ND	ug/L	1.0	1		11/27/19 12:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/27/19 12:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/27/19 12:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/27/19 12:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/27/19 12:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/27/19 12:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		11/27/19 12:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		11/27/19 12:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		11/27/19 12:01	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		11/27/19 12:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/27/19 12:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/27/19 12:01	95-47-6	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	100	%	70-130	1		11/27/19 12:01	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		11/27/19 12:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		11/27/19 12:01	2037-26-5	
<b>8260 MSV SIM</b>	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	<b>6.8</b>	ug/L	2.0	1		11/23/19 02:36	123-91-1	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		11/23/19 02:36	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		11/23/19 02:36	2037-26-5	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

QC Batch: 511941

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92454719001, 92454719004, 92454719005, 92454719006, 92454719007, 92454719008, 92454719009,  
92454719010, 92454719018

METHOD BLANK: 2745688

Matrix: Water

Associated Lab Samples: 92454719001, 92454719004, 92454719005, 92454719006, 92454719007, 92454719008, 92454719009,  
92454719010, 92454719018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 05:17	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/27/19 05:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 05:17	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/27/19 05:17	
1,1-Dichloroethane	ug/L	ND	1.0	11/27/19 05:17	
1,1-Dichloroethene	ug/L	ND	1.0	11/27/19 05:17	
1,1-Dichloropropene	ug/L	ND	1.0	11/27/19 05:17	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/27/19 05:17	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/27/19 05:17	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/27/19 05:17	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/27/19 05:17	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/27/19 05:17	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/27/19 05:17	
1,2-Dichloroethane	ug/L	ND	1.0	11/27/19 05:17	
1,2-Dichloropropane	ug/L	ND	1.0	11/27/19 05:17	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/27/19 05:17	
1,3-Dichloropropane	ug/L	ND	1.0	11/27/19 05:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/27/19 05:17	
2,2-Dichloropropane	ug/L	ND	1.0	11/27/19 05:17	
2-Butanone (MEK)	ug/L	ND	5.0	11/27/19 05:17	
2-Chlorotoluene	ug/L	ND	1.0	11/27/19 05:17	
2-Hexanone	ug/L	ND	5.0	11/27/19 05:17	
4-Chlorotoluene	ug/L	ND	1.0	11/27/19 05:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/27/19 05:17	
Acetone	ug/L	ND	25.0	11/27/19 05:17	
Benzene	ug/L	ND	1.0	11/27/19 05:17	
Bromobenzene	ug/L	ND	1.0	11/27/19 05:17	
Bromochloromethane	ug/L	ND	1.0	11/27/19 05:17	
Bromodichloromethane	ug/L	ND	1.0	11/27/19 05:17	
Bromoform	ug/L	ND	1.0	11/27/19 05:17	
Bromomethane	ug/L	ND	2.0	11/27/19 05:17	
Carbon tetrachloride	ug/L	ND	1.0	11/27/19 05:17	
Chlorobenzene	ug/L	ND	1.0	11/27/19 05:17	
Chloroethane	ug/L	ND	1.0	11/27/19 05:17	
Chloroform	ug/L	ND	5.0	11/27/19 05:17	
Chloromethane	ug/L	ND	1.0	11/27/19 05:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 05:17	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 05:17	
Dibromochloromethane	ug/L	ND	1.0	11/27/19 05:17	
Dibromomethane	ug/L	ND	1.0	11/27/19 05:17	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

METHOD BLANK: 2745688

Matrix: Water

Associated Lab Samples: 92454719001, 92454719004, 92454719005, 92454719006, 92454719007, 92454719008, 92454719009,  
92454719010, 92454719018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/27/19 05:17	
Diisopropyl ether	ug/L	ND	1.0	11/27/19 05:17	
Ethylbenzene	ug/L	ND	1.0	11/27/19 05:17	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/27/19 05:17	
m&p-Xylene	ug/L	ND	2.0	11/27/19 05:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/27/19 05:17	
Methylene Chloride	ug/L	ND	5.0	11/27/19 05:17	
Naphthalene	ug/L	ND	1.0	11/27/19 05:17	
o-Xylene	ug/L	ND	1.0	11/27/19 05:17	
p-Isopropyltoluene	ug/L	ND	1.0	11/27/19 05:17	
Styrene	ug/L	ND	1.0	11/27/19 05:17	
Tetrachloroethene	ug/L	ND	1.0	11/27/19 05:17	
Toluene	ug/L	ND	1.0	11/27/19 05:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 05:17	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 05:17	
Trichloroethene	ug/L	ND	1.0	11/27/19 05:17	
Trichlorofluoromethane	ug/L	ND	1.0	11/27/19 05:17	
Vinyl acetate	ug/L	ND	2.0	11/27/19 05:17	
Vinyl chloride	ug/L	ND	1.0	11/27/19 05:17	
Xylene (Total)	ug/L	ND	1.0	11/27/19 05:17	
1,2-Dichloroethane-d4 (S)	%	89	70-130	11/27/19 05:17	
4-Bromofluorobenzene (S)	%	101	70-130	11/27/19 05:17	
Toluene-d8 (S)	%	101	70-130	11/27/19 05:17	

LABORATORY CONTROL SAMPLE: 2745689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.1	100	70-130	
1,1,1-Trichloroethane	ug/L	50	45.7	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1-Dichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethene	ug/L	50	44.7	89	70-130	
1,1-Dichloropropene	ug/L	50	50.5	101	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.8	110	70-130	
1,2,3-Trichloropropane	ug/L	50	49.2	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.5	109	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.7	103	70-130	
1,2-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,2-Dichloroethane	ug/L	50	42.2	84	70-130	
1,2-Dichloropropane	ug/L	50	51.0	102	70-130	
1,3-Dichlorobenzene	ug/L	50	48.3	97	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

LABORATORY CONTROL SAMPLE: 2745689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	50.7	101	70-131	
1,4-Dichlorobenzene	ug/L	50	49.6	99	70-130	
2,2-Dichloropropane	ug/L	50	42.4	85	69-130	
2-Butanone (MEK)	ug/L	100	111	111	64-135	
2-Chlorotoluene	ug/L	50	48.0	96	70-130	
2-Hexanone	ug/L	100	105	105	66-135	
4-Chlorotoluene	ug/L	50	47.8	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-130	
Acetone	ug/L	100	118	118	61-157	
Benzene	ug/L	50	50.6	101	70-130	
Bromobenzene	ug/L	50	51.7	103	70-130	
Bromochloromethane	ug/L	50	49.4	99	70-130	
Bromodichloromethane	ug/L	50	49.0	98	70-130	
Bromoform	ug/L	50	53.3	107	70-130	
Bromomethane	ug/L	50	45.0	90	38-130	
Carbon tetrachloride	ug/L	50	46.4	93	70-130	
Chlorobenzene	ug/L	50	48.6	97	70-130	
Chloroethane	ug/L	50	32.1	64	37-142	
Chloroform	ug/L	50	47.4	95	70-130	
Chloromethane	ug/L	50	47.2	94	48-130	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dibromomethane	ug/L	50	51.2	102	70-130	
Dichlorodifluoromethane	ug/L	50	52.0	104	53-134	
Diisopropyl ether	ug/L	50	51.3	103	70-135	
Ethylbenzene	ug/L	50	46.2	92	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.1	100	68-132	
m&p-Xylene	ug/L	100	93.7	94	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Methylene Chloride	ug/L	50	44.8	90	67-132	
Naphthalene	ug/L	50	53.9	108	70-130	
o-Xylene	ug/L	50	48.5	97	70-130	
p-Isopropyltoluene	ug/L	50	48.5	97	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	47.6	95	69-130	
Toluene	ug/L	50	48.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.4	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	70-130	
Trichloroethene	ug/L	50	48.7	97	70-130	
Trichlorofluoromethane	ug/L	50	36.5	73	63-130	
Vinyl acetate	ug/L	100	95.9	96	55-143	
Vinyl chloride	ug/L	50	53.7	107	70-131	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			101	70-130	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2745690		2745691									
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		9245473012	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	800	800	901	901	113	113	113	73-134	0	30	
1,1,1-Trichloroethane	ug/L	ND	800	800	908	896	113	112	112	82-143	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	800	800	885	895	111	112	112	70-136	1	30	
1,1,2-Trichloroethane	ug/L	ND	800	800	889	893	111	112	112	70-135	0	30	
1,1-Dichloroethane	ug/L	ND	800	800	875	877	109	110	110	70-139	0	30	
1,1-Dichloroethene	ug/L	ND	800	800	910	894	114	112	112	70-154	2	30	
1,1-Dichloropropene	ug/L	ND	800	800	960	941	120	118	118	70-149	2	30	
1,2,3-Trichlorobenzene	ug/L	ND	800	800	934	1010	117	126	126	70-135	8	30	
1,2,3-Trichloropropane	ug/L	ND	800	800	938	902	117	113	113	71-137	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	800	800	950	971	119	121	121	73-140	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	800	800	906	952	113	119	119	65-134	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	800	800	911	899	114	112	112	70-137	1	30	
1,2-Dichlorobenzene	ug/L	ND	800	800	946	928	118	116	116	70-133	2	30	
1,2-Dichloroethane	ug/L	ND	800	800	817	827	102	103	103	70-137	1	30	
1,2-Dichloropropane	ug/L	ND	800	800	887	904	111	113	113	70-140	2	30	
1,3-Dichlorobenzene	ug/L	ND	800	800	947	908	118	114	114	70-135	4	30	
1,3-Dichloropropane	ug/L	ND	800	800	924	901	115	113	113	70-143	2	30	
1,4-Dichlorobenzene	ug/L	ND	800	800	954	920	119	115	115	70-133	4	30	
2,2-Dichloropropane	ug/L	ND	800	800	842	847	105	106	106	61-148	1	30	
2-Butanone (MEK)	ug/L	1170	1600	1600	2690	2730	95	98	98	60-139	1	30	
2-Chlorotoluene	ug/L	ND	800	800	958	933	120	117	117	70-144	3	30	
2-Hexanone	ug/L	ND	1600	1600	1700	1740	103	106	106	65-138	2	30	
4-Chlorotoluene	ug/L	ND	800	800	929	912	116	114	114	70-137	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1600	1600	1710	1780	106	110	110	65-135	4	30	
Acetone	ug/L	8790	1600	1600	10700	10900	117	132	132	60-148	2	30	
Benzene	ug/L	2090	800	800	3070	3080	122	123	123	70-151	0	30	
Bromobenzene	ug/L	ND	800	800	948	932	119	117	117	70-136	2	30	
Bromochloromethane	ug/L	ND	800	800	881	885	110	111	111	70-141	0	30	
Bromodichloromethane	ug/L	ND	800	800	869	890	109	111	111	70-138	2	30	
Bromoform	ug/L	ND	800	800	885	873	111	109	109	63-130	1	30	
Bromomethane	ug/L	ND	800	800	932	921	117	115	115	15-152	1	30	
Carbon tetrachloride	ug/L	ND	800	800	943	935	118	117	117	70-143	1	30	
Chlorobenzene	ug/L	ND	800	800	927	912	116	114	114	70-138	2	30	
Chloroethane	ug/L	ND	800	800	843	802	105	100	100	52-163	5	30	
Chloroform	ug/L	ND	800	800	879	865	110	108	108	70-139	2	30	
Chloromethane	ug/L	ND	800	800	755	729	94	91	91	41-139	3	30	
cis-1,2-Dichloroethene	ug/L	ND	800	800	866	866	108	108	108	70-141	0	30	
cis-1,3-Dichloropropene	ug/L	ND	800	800	897	895	112	112	112	70-137	0	30	
Dibromochloromethane	ug/L	ND	800	800	894	861	112	108	108	70-134	4	30	
Dibromomethane	ug/L	ND	800	800	886	900	111	113	113	70-138	2	30	
Dichlorodifluoromethane	ug/L	ND	800	800	745	725	93	91	91	47-155	3	30	
Diisopropyl ether	ug/L	ND	800	800	827	842	103	105	105	63-144	2	30	
Ethylbenzene	ug/L	251	800	800	1230	1200	123	119	119	66-153	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	800	800	955	926	119	116	116	65-149	3	30	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2745690      2745691

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
		92454473012	Spike Conc.	Spike Conc.	MS Result						RPD	RPD
m&p-Xylene	ug/L	613	1600	1600	2530	2460	120	116	69-152	3	30	
Methyl-tert-butyl ether	ug/L	ND	800	800	842	861	105	108	54-156	2	30	
Methylene Chloride	ug/L	ND	800	800	889	876	111	109	42-159	2	30	
Naphthalene	ug/L	237	800	800	1140	1280	112	130	61-148	12	30	
o-Xylene	ug/L	146	800	800	1070	1040	116	111	70-148	3	30	
p-Isopropyltoluene	ug/L	ND	800	800	1010	973	123	119	70-146	3	30	
Styrene	ug/L	ND	800	800	932	901	116	113	70-135	3	30	
Tetrachloroethene	ug/L	ND	800	800	891	868	111	108	59-143	3	30	
Toluene	ug/L	246	800	800	1180	1140	117	111	59-148	4	30	
trans-1,2-Dichloroethene	ug/L	ND	800	800	894	882	112	110	70-146	1	30	
trans-1,3-Dichloropropene	ug/L	ND	800	800	874	860	109	107	70-135	2	30	
Trichloroethene	ug/L	ND	800	800	919	933	115	117	70-147	1	30	
Trichlorofluoromethane	ug/L	ND	800	800	860	843	107	105	70-148	2	30	
Vinyl acetate	ug/L	ND	1600	1600	1690	1690	106	106	49-151	0	30	
Vinyl chloride	ug/L	ND	800	800	873	860	109	107	70-156	2	30	
Xylene (Total)	ug/L	759	2400	2400	3600	3500	118	114	63-158	3	30	
1,2-Dichloroethane-d4 (S)	%						99	100	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

QC Batch: 511970 Analysis Method: EPA 8260B

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

Associated Lab Samples: 92454719002, 92454719011, 92454719012, 92454719013, 92454719014, 92454719015, 92454719016,  
92454719017

METHOD BLANK: 2745850

Matrix: Water

Associated Lab Samples: 92454719002, 92454719011, 92454719012, 92454719013, 92454719014, 92454719015, 92454719016,  
92454719017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 17:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/27/19 17:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 17:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/27/19 17:35	
1,1-Dichloroethane	ug/L	ND	1.0	11/27/19 17:35	
1,1-Dichloroethene	ug/L	ND	1.0	11/27/19 17:35	
1,1-Dichloropropene	ug/L	ND	1.0	11/27/19 17:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/27/19 17:35	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/27/19 17:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/27/19 17:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/27/19 17:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/27/19 17:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/27/19 17:35	
1,2-Dichloroethane	ug/L	ND	1.0	11/27/19 17:35	
1,2-Dichloropropane	ug/L	ND	1.0	11/27/19 17:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/27/19 17:35	
1,3-Dichloropropane	ug/L	ND	1.0	11/27/19 17:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/27/19 17:35	
2,2-Dichloropropane	ug/L	ND	1.0	11/27/19 17:35	
2-Butanone (MEK)	ug/L	ND	5.0	11/27/19 17:35	
2-Chlorotoluene	ug/L	ND	1.0	11/27/19 17:35	
2-Hexanone	ug/L	ND	5.0	11/27/19 17:35	
4-Chlorotoluene	ug/L	ND	1.0	11/27/19 17:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/27/19 17:35	
Acetone	ug/L	ND	25.0	11/27/19 17:35	
Benzene	ug/L	ND	1.0	11/27/19 17:35	
Bromobenzene	ug/L	ND	1.0	11/27/19 17:35	
Bromochloromethane	ug/L	ND	1.0	11/27/19 17:35	
Bromodichloromethane	ug/L	ND	1.0	11/27/19 17:35	
Bromoform	ug/L	ND	1.0	11/27/19 17:35	
Bromomethane	ug/L	ND	2.0	11/27/19 17:35	
Carbon tetrachloride	ug/L	ND	1.0	11/27/19 17:35	
Chlorobenzene	ug/L	ND	1.0	11/27/19 17:35	
Chloroethane	ug/L	ND	1.0	11/27/19 17:35	
Chloroform	ug/L	ND	5.0	11/27/19 17:35	
Chloromethane	ug/L	ND	1.0	11/27/19 17:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 17:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 17:35	
Dibromochloromethane	ug/L	ND	1.0	11/27/19 17:35	
Dibromomethane	ug/L	ND	1.0	11/27/19 17:35	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

METHOD BLANK: 2745850

Matrix: Water

Associated Lab Samples: 92454719002, 92454719011, 92454719012, 92454719013, 92454719014, 92454719015, 92454719016,  
92454719017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	11/27/19 17:35	
Diisopropyl ether	ug/L	ND	1.0	11/27/19 17:35	
Ethylbenzene	ug/L	ND	1.0	11/27/19 17:35	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/27/19 17:35	
m&p-Xylene	ug/L	ND	2.0	11/27/19 17:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/27/19 17:35	
Methylene Chloride	ug/L	ND	5.0	11/27/19 17:35	
Naphthalene	ug/L	ND	1.0	11/27/19 17:35	
o-Xylene	ug/L	ND	1.0	11/27/19 17:35	
p-Isopropyltoluene	ug/L	ND	1.0	11/27/19 17:35	
Styrene	ug/L	ND	1.0	11/27/19 17:35	
Tetrachloroethene	ug/L	ND	1.0	11/27/19 17:35	
Toluene	ug/L	ND	1.0	11/27/19 17:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 17:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 17:35	
Trichloroethene	ug/L	ND	1.0	11/27/19 17:35	
Trichlorofluoromethane	ug/L	ND	1.0	11/27/19 17:35	
Vinyl acetate	ug/L	ND	2.0	11/27/19 17:35	
Vinyl chloride	ug/L	ND	1.0	11/27/19 17:35	
Xylene (Total)	ug/L	ND	1.0	11/27/19 17:35	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/27/19 17:35	
4-Bromofluorobenzene (S)	%	96	70-130	11/27/19 17:35	
Toluene-d8 (S)	%	103	70-130	11/27/19 17:35	

LABORATORY CONTROL SAMPLE: 2745851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	70-130	
1,1,1-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.5	105	70-130	
1,1,2-Trichloroethane	ug/L	50	53.6	107	70-130	
1,1-Dichloroethane	ug/L	50	51.6	103	70-130	
1,1-Dichloroethene	ug/L	50	51.9	104	70-130	
1,1-Dichloropropene	ug/L	50	56.4	113	70-130	
1,2,3-Trichlorobenzene	ug/L	50	59.8	120	70-130	
1,2,3-Trichloropropane	ug/L	50	54.4	109	70-130	
1,2,4-Trichlorobenzene	ug/L	50	57.3	115	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.5	113	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	109	70-130	
1,2-Dichlorobenzene	ug/L	50	55.4	111	70-130	
1,2-Dichloroethane	ug/L	50	50.4	101	70-130	
1,2-Dichloropropane	ug/L	50	53.7	107	70-130	
1,3-Dichlorobenzene	ug/L	50	55.1	110	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

**LABORATORY CONTROL SAMPLE: 2745851**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	54.0	108	70-131	
1,4-Dichlorobenzene	ug/L	50	55.4	111	70-130	
2,2-Dichloropropane	ug/L	50	55.1	110	69-130	
2-Butanone (MEK)	ug/L	100	103	103	64-135	
2-Chlorotoluene	ug/L	50	52.6	105	70-130	
2-Hexanone	ug/L	100	101	101	66-135	
4-Chlorotoluene	ug/L	50	53.5	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	96.3	96	70-130	
Acetone	ug/L	100	113	113	61-157	
Benzene	ug/L	50	51.3	103	70-130	
Bromobenzene	ug/L	50	54.8	110	70-130	
Bromochloromethane	ug/L	50	54.2	108	70-130	
Bromodichloromethane	ug/L	50	53.7	107	70-130	
Bromoform	ug/L	50	53.8	108	70-130	
Bromomethane	ug/L	50	46.9	94	38-130	
Carbon tetrachloride	ug/L	50	54.7	109	70-130	
Chlorobenzene	ug/L	50	53.9	108	70-130	
Chloroethane	ug/L	50	39.9	80	37-142	
Chloroform	ug/L	50	51.6	103	70-130	
Chloromethane	ug/L	50	45.8	92	48-130	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.7	109	70-130	
Dibromochloromethane	ug/L	50	53.9	108	70-130	
Dibromomethane	ug/L	50	52.7	105	70-130	
Dichlorodifluoromethane	ug/L	50	49.9	100	53-134	
Diisopropyl ether	ug/L	50	50.0	100	70-135	
Ethylbenzene	ug/L	50	53.9	108	70-130	
Hexachloro-1,3-butadiene	ug/L	50	55.2	110	68-132	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	51.1	102	70-130	
Methylene Chloride	ug/L	50	51.4	103	67-132	
Naphthalene	ug/L	50	56.9	114	70-130	
o-Xylene	ug/L	50	52.2	104	70-130	
p-Isopropyltoluene	ug/L	50	55.6	111	70-130	
Styrene	ug/L	50	54.4	109	70-130	
Tetrachloroethene	ug/L	50	51.7	103	69-130	
Toluene	ug/L	50	51.4	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.9	106	70-130	
Trichloroethene	ug/L	50	54.4	109	70-130	
Trichlorofluoromethane	ug/L	50	48.4	97	63-130	
Vinyl acetate	ug/L	100	107	107	55-143	
Vinyl chloride	ug/L	50	53.2	106	70-131	
Xylene (Total)	ug/L	150	158	106	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

MATRIX SPIKE SAMPLE:	2747200						
Parameter	Units	92454724011	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	23.8	119	73-134	
1,1,1-Trichloroethane	ug/L	ND	20	25.2	126	82-143	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	22.4	112	70-136	
1,1,2-Trichloroethane	ug/L	ND	20	23.4	117	70-135	
1,1-Dichloroethane	ug/L	ND	20	24.2	121	70-139	
1,1-Dichloroethene	ug/L	ND	20	25.0	125	70-154	
1,1-Dichloropropene	ug/L	ND	20	26.7	133	70-149	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.4	107	70-135	
1,2,3-Trichloropropane	ug/L	ND	20	22.7	113	71-137	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.1	106	73-140	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	22.6	113	65-134	
1,2-Dibromoethane (EDB)	ug/L	ND	20	23.7	119	70-137	
1,2-Dichlorobenzene	ug/L	ND	20	21.2	106	70-133	
1,2-Dichloroethane	ug/L	ND	20	22.9	114	70-137	
1,2-Dichloropropane	ug/L	ND	20	23.1	116	70-140	
1,3-Dichlorobenzene	ug/L	ND	20	21.0	105	70-135	
1,3-Dichloropropane	ug/L	ND	20	23.4	117	70-143	
1,4-Dichlorobenzene	ug/L	ND	20	21.1	105	70-133	
2,2-Dichloropropane	ug/L	ND	20	26.1	131	61-148	
2-Butanone (MEK)	ug/L	ND	40	47.8	119	60-139	
2-Chlorotoluene	ug/L	ND	20	21.5	107	70-144	
2-Hexanone	ug/L	ND	40	44.8	112	65-138	
4-Chlorotoluene	ug/L	ND	20	21.5	108	70-137	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	45.0	113	65-135	
Acetone	ug/L	ND	40	46.5	116	60-148	
Benzene	ug/L	ND	20	23.8	119	70-151	
Bromobenzene	ug/L	ND	20	22.9	114	70-136	
Bromochloromethane	ug/L	ND	20	26.4	132	70-141	
Bromodichloromethane	ug/L	ND	20	23.5	118	70-138	
Bromoform	ug/L	ND	20	23.4	117	63-130	
Bromomethane	ug/L	ND	20	25.6	128	15-152	
Carbon tetrachloride	ug/L	ND	20	25.0	125	70-143	
Chlorobenzene	ug/L	ND	20	22.1	111	70-138	
Chloroethane	ug/L	ND	20	25.6	128	52-163	
Chloroform	ug/L	ND	20	25.0	125	70-139	
Chloromethane	ug/L	ND	20	22.7	113	41-139	
cis-1,2-Dichloroethene	ug/L	ND	20	24.4	122	70-141	
cis-1,3-Dichloropropene	ug/L	ND	20	23.8	119	70-137	
Dibromochloromethane	ug/L	ND	20	23.4	117	70-134	
Dibromomethane	ug/L	ND	20	24.0	120	70-138	
Dichlorodifluoromethane	ug/L	ND	20	27.3	137	47-155	
Diisopropyl ether	ug/L	ND	20	25.0	125	63-144	
Ethylbenzene	ug/L	ND	20	22.6	113	66-153	
Hexachloro-1,3-butadiene	ug/L	ND	20	23.0	115	65-149	
m&p-Xylene	ug/L	ND	40	44.6	111	69-152	
Methyl-tert-butyl ether	ug/L	ND	20	24.7	124	54-156	
Methylene Chloride	ug/L	ND	20	24.1	121	42-159	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

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**MATRIX SPIKE SAMPLE:** 2747200

Parameter	Units	92454724011	Spike	MS	MS	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits	
Naphthalene	ug/L	ND	20	21.1	105	61-148	
o-Xylene	ug/L	ND	20	22.9	114	70-148	
p-Isopropyltoluene	ug/L	ND	20	21.2	106	70-146	
Styrene	ug/L	ND	20	22.8	114	70-135	
Tetrachloroethene	ug/L	ND	20	23.2	116	59-143	
Toluene	ug/L	ND	20	23.0	115	59-148	
trans-1,2-Dichloroethene	ug/L	ND	20	25.1	126	70-146	
trans-1,3-Dichloropropene	ug/L	ND	20	23.6	118	70-135	
Trichloroethene	ug/L	ND	20	24.1	120	70-147	
Trichlorofluoromethane	ug/L	ND	20	24.8	124	70-148	
Vinyl acetate	ug/L	ND	40	45.9	115	49-151	
Vinyl chloride	ug/L	ND	20	28.1	140	70-156	
Xylene (Total)	ug/L	ND	60	67.5	112	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

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**SAMPLE DUPLICATE:** 2747199

Parameter	Units	92454724010	Dup	Max	Qualifiers
		Result	Result	RPD	
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	
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: Former Kop Flex Onsite #1

Pace Project No.: 92454719

SAMPLE DUPLICATE: 2747199

Parameter	Units	92454724010 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	
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)	%	91	97			
4-Bromofluorobenzene (S)	%	96	96			
Toluene-d8 (S)	%	104	103			

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## **QUALITY CONTROL DATA**

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

QC Batch: 512103

QC Batch Method: EPA 8260B

Associated Lab Samples: 92454719003

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METHOD BLANK: 2746253

## Matrix: Water

Associated Lab Samples: 92454719003

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1-Dichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,1-Dichloroethene	ug/L	ND	1.0	11/27/19 12:27	
1,1-Dichloropropene	ug/L	ND	1.0	11/27/19 12:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	11/27/19 12:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/27/19 12:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichloroethane	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichloropropane	ug/L	ND	1.0	11/27/19 12:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
1,3-Dichloropropane	ug/L	ND	1.0	11/27/19 12:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
2,2-Dichloropropane	ug/L	ND	1.0	11/27/19 12:27	
2-Butanone (MEK)	ug/L	ND	5.0	11/27/19 12:27	
2-Chlorotoluene	ug/L	ND	1.0	11/27/19 12:27	
2-Hexanone	ug/L	ND	5.0	11/27/19 12:27	
4-Chlorotoluene	ug/L	ND	1.0	11/27/19 12:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	11/27/19 12:27	
Acetone	ug/L	ND	25.0	11/27/19 12:27	
Benzene	ug/L	ND	1.0	11/27/19 12:27	
Bromobenzene	ug/L	ND	1.0	11/27/19 12:27	
Bromochloromethane	ug/L	ND	1.0	11/27/19 12:27	
Bromodichloromethane	ug/L	ND	1.0	11/27/19 12:27	
Bromoform	ug/L	ND	1.0	11/27/19 12:27	
Bromomethane	ug/L	ND	2.0	11/27/19 12:27	
Carbon tetrachloride	ug/L	ND	1.0	11/27/19 12:27	
Chlorobenzene	ug/L	ND	1.0	11/27/19 12:27	
Chloroethane	ug/L	ND	1.0	11/27/19 12:27	
Chloroform	ug/L	ND	5.0	11/27/19 12:27	
Chloromethane	ug/L	ND	1.0	11/27/19 12:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 12:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 12:27	
Dibromochloromethane	ug/L	ND	1.0	11/27/19 12:27	
Dibromomethane	ug/L	ND	1.0	11/27/19 12:27	
Dichlorodifluoromethane	ug/L	ND	1.0	11/27/19 12:27	

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## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

METHOD BLANK: 2746253

Matrix: Water

Associated Lab Samples: 92454719003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	11/27/19 12:27	
Ethylbenzene	ug/L	ND	1.0	11/27/19 12:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/27/19 12:27	
m&p-Xylene	ug/L	ND	2.0	11/27/19 12:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/27/19 12:27	
Methylene Chloride	ug/L	ND	5.0	11/27/19 12:27	
Naphthalene	ug/L	ND	1.0	11/27/19 12:27	
o-Xylene	ug/L	ND	1.0	11/27/19 12:27	
p-Isopropyltoluene	ug/L	ND	1.0	11/27/19 12:27	
Styrene	ug/L	ND	1.0	11/27/19 12:27	
Tetrachloroethene	ug/L	ND	1.0	11/27/19 12:27	
Toluene	ug/L	ND	1.0	11/27/19 12:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/27/19 12:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/27/19 12:27	
Trichloroethene	ug/L	ND	1.0	11/27/19 12:27	
Trichlorofluoromethane	ug/L	ND	1.0	11/27/19 12:27	
Vinyl acetate	ug/L	ND	2.0	11/27/19 12:27	
Vinyl chloride	ug/L	ND	1.0	11/27/19 12:27	
Xylene (Total)	ug/L	ND	1.0	11/27/19 12:27	
1,2-Dichloroethane-d4 (S)	%	98	70-130	11/27/19 12:27	
4-Bromofluorobenzene (S)	%	107	70-130	11/27/19 12:27	
Toluene-d8 (S)	%	107	70-130	11/27/19 12:27	

LABORATORY CONTROL SAMPLE: 2746254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.0	106	70-130	
1,1,1-Trichloroethane	ug/L	50	52.7	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1-Dichloroethane	ug/L	50	51.7	103	70-130	
1,1-Dichloroethene	ug/L	50	56.3	113	70-130	
1,1-Dichloropropene	ug/L	50	58.4	117	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.2	100	70-130	
1,2,3-Trichloropropane	ug/L	50	52.2	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	50.8	102	70-130	
1,2-Dichloropropene	ug/L	50	53.8	108	70-130	
1,3-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,3-Dichloropropane	ug/L	50	56.2	112	70-131	
1,4-Dichlorobenzene	ug/L	50	49.0	98	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

LABORATORY CONTROL SAMPLE: 2746254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	52.3	105	69-130	
2-Butanone (MEK)	ug/L	100	108	108	64-135	
2-Chlorotoluene	ug/L	50	50.1	100	70-130	
2-Hexanone	ug/L	100	104	104	66-135	
4-Chlorotoluene	ug/L	50	50.4	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	104	104	70-130	
Acetone	ug/L	100	124	124	61-157	
Benzene	ug/L	50	52.7	105	70-130	
Bromobenzene	ug/L	50	49.5	99	70-130	
Bromochloromethane	ug/L	50	53.5	107	70-130	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	51.8	104	70-130	
Bromomethane	ug/L	50	37.3	75	38-130	
Carbon tetrachloride	ug/L	50	49.8	100	70-130	
Chlorobenzene	ug/L	50	49.5	99	70-130	
Chloroethane	ug/L	50	55.9	112	37-142	
Chloroform	ug/L	50	52.7	105	70-130	
Chloromethane	ug/L	50	57.3	115	48-130	
cis-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	57.7	115	70-130	
Dibromochloromethane	ug/L	50	53.8	108	70-130	
Dibromomethane	ug/L	50	46.3	93	70-130	
Dichlorodifluoromethane	ug/L	50	68.5	137	53-134 L1	
Diisopropyl ether	ug/L	50	56.6	113	70-135	
Ethylbenzene	ug/L	50	49.2	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.8	102	68-132	
m&p-Xylene	ug/L	100	99.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	57.7	115	70-130	
Methylene Chloride	ug/L	50	52.1	104	67-132	
Naphthalene	ug/L	50	50.8	102	70-130	
o-Xylene	ug/L	50	49.9	100	70-130	
p-Isopropyltoluene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	47.0	94	69-130	
Toluene	ug/L	50	48.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	70-130	
trans-1,3-Dichloropropene	ug/L	50	55.8	112	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	51.4	103	63-130	
Vinyl acetate	ug/L	100	110	110	55-143	
Vinyl chloride	ug/L	50	66.5	133	70-131 L1	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746255      2746256

Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		92454820011	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual	
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.7	19.9	94	100	73-134	6	30		
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	21.4	21.1	107	106	82-143	1	30		
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	20.0	20.7	100	103	70-136	3	30		
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	21.5	20.6	108	103	70-135	5	30		
1,1-Dichloroethane	ug/L	1.0 U	20	20	22.0	21.6	110	108	70-139	2	30		
1,1-Dichloroethene	ug/L	1.0 U	20	20	24.3	23.8	122	119	70-154	2	30		
1,1-Dichloropropene	ug/L	1.0 U	20	20	22.4	22.9	112	115	70-149	2	30		
1,2,3-Trichlorobenzene	ug/L	1.0 U	20	20	19.4	20.1	97	100	70-135	3	30		
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	20.0	20.7	100	103	71-137	3	30		
1,2,4-Trichlorobenzene	ug/L	1.0 U	20	20	18.6	19.8	93	99	73-140	6	30		
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	17.9	18.8	89	94	65-134	5	30		
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	20.0	20.6	100	103	70-137	3	30		
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.6	20.5	98	103	70-133	4	30		
1,2-Dichloroethane	ug/L	1.0 U	20	20	20.7	20.5	103	103	70-137	1	30		
1,2-Dichloropropane	ug/L	1.0 U	20	20	22.3	21.4	112	107	70-140	4	30		
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	19.8	19.8	99	99	70-135	0	30		
1,3-Dichloropropane	ug/L	1.0 U	20	20	21.2	21.9	106	110	70-143	3	30		
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	20.1	19.5	101	97	70-133	3	30		
2,2-Dichloropropane	ug/L	1.0 U	20	20	19.8	19.7	99	99	61-148	0	30		
2-Butanone (MEK)	ug/L	5.0 U	40	40	35.7	39.8	89	99	60-139	11	30		
2-Chlorotoluene	ug/L	1.0 U	20	20	20.1	20.3	100	102	70-144	1	30		
2-Hexanone	ug/L	5.0 U	40	40	40.2	42.6	101	107	65-138	6	30		
4-Chlorotoluene	ug/L	1.0 U	20	20	20.3	20.6	102	103	70-137	1	30		
4-Methyl-2-pentanone (MIBK)	ug/L	5.0 U	40	40	39.8	42.0	100	105	65-135	5	30		
Acetone	ug/L	25.0 U	40	40	42.9	45.6	107	114	60-148	6	30		
Benzene	ug/L	1.0 U	20	20	22.6	21.6	113	108	70-151	4	30		
Bromobenzene	ug/L	1.0 U	20	20	20.0	20.0	100	100	70-136	0	30		
Bromochloromethane	ug/L	1.0 U	20	20	22.2	22.1	111	110	70-141	1	30		
Bromodichloromethane	ug/L	1.0 U	20	20	21.7	20.9	109	105	70-138	4	30		
Bromoform	ug/L	1.0 U	20	20	18.8	19.7	94	98	63-130	4	30		
Bromomethane	ug/L	2.0 U	20	20	17.1	18.5	86	92	15-152	8	30		
Carbon tetrachloride	ug/L	1.0 U	20	20	22.7	22.1	113	111	70-143	3	30		
Chlorobenzene	ug/L	1.0 U	20	20	20.6	20.7	103	104	70-138	1	30		
Chloroethane	ug/L	1.0 U	20	20	28.1	26.0	141	130	52-163	8	30		
Chloroform	ug/L	5.0 U	20	20	21.6	21.8	108	109	70-139	1	30		
Chloromethane	ug/L	1.0 U	20	20	24.2	24.1	121	120	41-139	1	30		
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	21.4	21.5	107	107	70-141	0	30		
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	21.0	21.1	105	105	70-137	0	30		
Dibromochloromethane	ug/L	1.0 U	20	20	19.0	19.7	95	98	70-134	3	30		
Dibromomethane	ug/L	1.0 U	20	20	20.4	19.3	102	97	70-138	5	30		
Dichlorodifluoromethane	ug/L	1.0 U	20	20	28.2	28.2	141	141	47-155	0	30		
Diisopropyl ether	ug/L	1.0 U	20	20	20.6	21.9	103	109	63-144	6	30		
Ethylbenzene	ug/L	1.0 U	20	20	20.5	20.7	102	104	66-153	1	30		
Hexachloro-1,3-butadiene	ug/L	1.0 U	20	20	18.6	18.1	93	91	65-149	3	30		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2746255      2746256

Parameter	Units	MS		MSD		MS Result	% Rec	MSD % Rec	% Rec	Max	
		92454820011	Spike Conc.	Spike Conc.	MS Result					RPD	RPD
m&p-Xylene	ug/L	2.0 U	40	40	42.3	42.8	106	107	69-152	1	30
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	20.1	21.2	100	106	54-156	5	30
Methylene Chloride	ug/L	5.0 U	20	20	23.6	23.0	118	115	42-159	3	30
Naphthalene	ug/L	1.0 U	20	20	18.8	19.5	94	98	61-148	4	30
o-Xylene	ug/L	1.0 U	20	20	20.3	20.5	101	103	70-148	1	30
p-Isopropyltoluene	ug/L	1.0 U	20	20	19.3	19.8	97	99	70-146	2	30
Styrene	ug/L	1.0 U	20	20	20.4	20.9	102	104	70-135	2	30
Tetrachloroethene	ug/L	1.0 U	20	20	19.2	19.0	96	95	59-143	1	30
Toluene	ug/L	1.0 U	20	20	21.3	20.7	106	103	59-148	3	30
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	22.5	22.2	113	111	70-146	2	30
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	20.7	21.3	104	107	70-135	3	30
Trichloroethene	ug/L	1.8	20	20	23.9	23.3	111	108	70-147	3	30
Trichlorofluoromethane	ug/L	1.0 U	20	20	23.1	22.5	115	113	70-148	2	30
Vinyl acetate	ug/L	2.0 U	40	40	34.4	35.4	86	88	49-151	3	30
Vinyl chloride	ug/L	1.0 U	20	20	26.5	26.4	133	132	70-156	0	30
Xylene (Total)	ug/L	1.0 U	60	60	62.6	63.3	104	106	63-158	1	30
1,2-Dichloroethane-d4 (S)	%						104	107	70-130		
4-Bromofluorobenzene (S)	%						101	103	70-130		
Toluene-d8 (S)	%						103	101	70-130		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

QC Batch: 511329 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92454719001, 92454719002, 92454719004, 92454719005, 92454719006, 92454719007, 92454719008,  
92454719009, 92454719010, 92454719013

METHOD BLANK: 2743104 Matrix: Water

Associated Lab Samples: 92454719001, 92454719002, 92454719004, 92454719005, 92454719006, 92454719007, 92454719008,  
92454719009, 92454719010, 92454719013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/22/19 18:39	
1,2-Dichloroethane-d4 (S)	%	91	50-150	11/22/19 18:39	
Toluene-d8 (S)	%	105	50-150	11/22/19 18:39	

LABORATORY CONTROL SAMPLE: 2743105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane-d4 (S)	%			97	50-150	
Toluene-d8 (S)	%			108	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743457 2743458

Parameter	Units	92454719006 Result	MS	MSD	MS Result	MSD Result	MS	MSD	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.			% Rec	% Rec				
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	18.0	19.7	86	94	50-150	9	30	
1,2-Dichloroethane-d4 (S)	%						94	94	50-150		30	
Toluene-d8 (S)	%						89	88	50-150		30	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

QC Batch: 511330 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92454719017, 92454719018

METHOD BLANK: 2743111 Matrix: Water

Associated Lab Samples: 92454719017, 92454719018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/22/19 18:58	
1,2-Dichloroethane-d4 (S)	%	97	50-150	11/22/19 18:58	
Toluene-d8 (S)	%	102	50-150	11/22/19 18:58	

LABORATORY CONTROL SAMPLE: 2743112

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)	%			96	50-150	
Toluene-d8 (S)	%			104	50-150	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 2743113 2743114

Parameter	Units	92454724002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
			Spike Conc.	Spike Conc.								
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	18.1	19.0	87	92	50-150	5	30	
1,2-Dichloroethane-d4 (S)	%						89	96	50-150		30	
Toluene-d8 (S)	%						87	90	50-150		30	

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## QUALITY CONTROL DATA

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

QC Batch: 511422 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92454719003, 92454719011, 92454719012, 92454719014, 92454719015, 92454719016

METHOD BLANK: 2743463 Matrix: Water

Associated Lab Samples: 92454719003, 92454719011, 92454719012, 92454719014, 92454719015, 92454719016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	11/23/19 17:35	
1,2-Dichloroethane-d4 (S)	%	96	50-150	11/23/19 17:35	
Toluene-d8 (S)	%	94	50-150	11/23/19 17:35	

LABORATORY CONTROL SAMPLE: 2743464

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)	%			89	50-150	
Toluene-d8 (S)	%			96	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2743465 2743466

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	RPD	RPD	Max Qual
		92454719003	Result	Spike Conc.	MS Result								
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.2	19.1	97	97	91	50-150	6	30	
1,2-Dichloroethane-d4 (S)	%						97	97	95	50-150		30	
Toluene-d8 (S)	%						87	87	89	50-150		30	

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## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Former Kop Flex Onsite #1

Pace Project No.: 92454719

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### 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.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Former Kop Flex Onsite #1  
Pace Project No.: 92454719

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92454719001	Trip Blank B	EPA 8260B	511941		
92454719002	MW-43	EPA 8260B	511970		
92454719003	MW-39	EPA 8260B	512103		
92454719004	MW-42	EPA 8260B	511941		
92454719005	MW-18	EPA 8260B	511941		
92454719006	MW-40D	EPA 8260B	511941		
92454719007	MW-38R	EPA 8260B	511941		
92454719008	MW-21D	EPA 8260B	511941		
92454719009	MW-01D	EPA 8260B	511941		
92454719010	MW-22D	EPA 8260B	511941		
92454719011	MW-20	EPA 8260B	511970		
92454719012	MW-04	EPA 8260B	511970		
92454719013	MW-09	EPA 8260B	511970		
92454719014	DUP 111919	EPA 8260B	511970		
92454719015	MW-23D	EPA 8260B	511970		
92454719016	MW-16D	EPA 8260B	511970		
92454719017	MW-16	EPA 8260B	511970		
92454719018	MW-05R	EPA 8260B	511941		
92454719001	Trip Blank B	EPA 8260B Mod.	511329		
92454719002	MW-43	EPA 8260B Mod.	511329		
92454719003	MW-39	EPA 8260B Mod.	511422		
92454719004	MW-42	EPA 8260B Mod.	511329		
92454719005	MW-18	EPA 8260B Mod.	511329		
92454719006	MW-40D	EPA 8260B Mod.	511329		
92454719007	MW-38R	EPA 8260B Mod.	511329		
92454719008	MW-21D	EPA 8260B Mod.	511329		
92454719009	MW-01D	EPA 8260B Mod.	511329		
92454719010	MW-22D	EPA 8260B Mod.	511329		
92454719011	MW-20	EPA 8260B Mod.	511422		
92454719012	MW-04	EPA 8260B Mod.	511422		
92454719013	MW-09	EPA 8260B Mod.	511329		
92454719014	DUP 111919	EPA 8260B Mod.	511422		
92454719015	MW-23D	EPA 8260B Mod.	511422		
92454719016	MW-16D	EPA 8260B Mod.	511422		
92454719017	MW-16	EPA 8260B Mod.	511330		
92454719018	MW-05R	EPA 8260B Mod.	511330		

**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# : 92454719

Courier:  
 Commercial
 FedEx     UPS     USPS     Client  
 Pace     Other: \_\_\_\_\_


92454719

Custody Seal Present?  Yes     No    Seals Intact?  Yes     No

Date/Initials Person Examining Contents: YCO 11/24/19

Packing Material:  Bubble Wrap     Bubble Bags     None     Other

Biological Tissue Frozen?

 Yes     No     N/AThermometer:  IR Gun ID: 92T058Type of Ice:  Wet     Blue     None

Cooler Temp (°C): 3.2, 1.4 Correction Factor: Add/Subtract (°C) 0.0°C

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.2, 1.4

 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)?

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

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A WT	9.
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input checked="" 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: TDDate: 11/22Project Manager SRF Review: TDDate: 11/22



Document Name:  
Sample Condition Upon Receipt(SCUR)

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# : 92454719

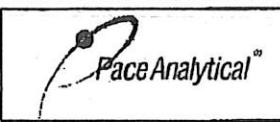
PM: PTE Due Date: 12/02/19  
CLIENT: 92-WSP

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPAS-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BPAc-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-)	AG5-1 liter Amber H2SO4 (pH < 2)	AG5S-250 mL Amber H2SO4 (pH < 2)	AG6A(DG6A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG6H-40 mL VOA HCl (N/A)	VG6T-40 mL VOA Na2SeO3 (N/A)	VG6U-40 mL VOA Unp (N/A)	DG6P-40 mL VOA H3PO4 (N/A)	VOA(k (6 vials per kit)-5035 kit (N/A)	V/G/K (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)	AG6U-100 mL Amber Unpreserved vials (N/A)	VGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

#### pH Adjustment Log for Preserved Samples

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

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



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# : 92454719

PM: PTE Due Date: 12/02/19  
CLIENT: 92-WSP

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGEU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-SO35 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)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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#### pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**
**Required Client Information:**

Company: WSP  
 Address: 13530 Dulles Technology Drive  
 Suite 300 Herndon, VA 20171  
 Email:  
 Phone: Fax  
 Requested Due Date:

**Section B**
**Required Project Information:**

Report To: Cresci, Chris  
 Copy To:  
 Purchase Order #:  
 Project Name: Former Kop-Flex Facility  
 Project #: 31401520  
 Pace Profile #: 4362-1

**Section C**
**Invoice Information:**

Attention: *Clouds, Playdate Colony*  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: taylor.ezell@pacelabs.com,  
 Pace Profile #: 4362-1  
 Regulatory Agency:  
 State / Location: MD

Page: 2 Of 2  
*Onsite #3*

**ITEM #**
**SAMPLE ID**

One Character per box.  
 (A-Z, 0-9, /, -)  
 Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Solid/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

MATRIX CODE (see valid codes to left)

SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED	Preservatives
STATION	END

SAMPLE TEMP AT COLLECTION

# OF CONTAINERS

Unpreserved	X
H2SO4	X
HNO3	X
HCl	X
NaOH	X
Na2S2O3	X
Methanol	X
Other	X

Analyses Test

VOC by 8260 & 8260SIM	X
Trip BLANK	X

Residual Chlorine (Y/N)

*SL45478*  
*OB*  
*O14*  
*O15*  
*O16*  
*O17*  
*O18*

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