



VIA ELECTRONIC MAIL

August 16, 2017

Erich Weissbart, P.G.
Remedial Project Manager
Land and Chemicals Division
U.S. Environmental Protection Agency, Region III
701 Mapes Road
Fort Meade, MD 20755

Subject: **Quarterly Progress Report No. 3**
Former Kop-Flex Facility Site, Hanover, Maryland
Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA

Dear Erich:

On behalf of EMERSUB 16, LLC, a subsidiary of Emerson Electric Co., WSP USA, Inc. (WSP), formerly known as WSP Parsons Brinckerhoff, is submitting this quarterly progress report describing the activities conducted in the second quarter of calendar year 2017 (April 1 through June 30) as part of the corrective measures implementation at the Former Kop-Flex Facility (Site) in Hanover, Maryland. The report also describes the activities planned for the third quarter of calendar year 2017 (July 1 through September 30). This progress report is being submitted to the U.S. Environmental Protection Agency (EPA) pursuant to Section IV.C.3 of the Administrative Order on Consent, Docket No. RCRA-03-2016-0170 CA for the Site (Consent Order).

Please note that EMERSUB 16, LLC continues to fulfill its obligations under the 2015 Remedial Action Plan under the Maryland Department of the Environment Voluntary Cleanup Program, and that EMERSUB 16, LLC 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, PhD.
Senior Technical Manager

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Encl.

cc: Mr. Stephen Clarke, Emerson Electric Co.
 Ms. Richelle Hanson, Maryland Department of the Environment
 Mr. Raymond Goins, Trammell Crow Company

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13530 Dulles Technology Drive
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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 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: Vice-President of Environmental Affairs and Real Estate at Emerson Electric Co.,
the parent company of EMERSUB 16, LLC

Quarterly Progress Report No. 3

Former Kop-Flex Facility Site

April 2017 through June 2017

Site Name: Former Kop-Flex Facility
Site Address: 7565 Harmans Road
Hanover, Maryland 21076

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

Project Coordinator: Eric Johnson
Alternate: Lisa Bryda

1.0 ACTIVITIES COMPLETED DURING APRIL 2017 - JUNE 2017 REPORTING PERIOD

1.1 HYDRAULIC CONTAINMENT SYSTEM OPERATION

- The hydraulic containment system operated continuously from April 1, 2017 through June 30, 2017. During the reporting period, a total of approximately 9.3 million gallons of volatile organic compound (VOC)-containing groundwater was recovered and treated by the system, with an average withdrawal rate of approximately 72 gallons per minute (GPM) [103,700 gallons per day (GPD)]. The majority of the groundwater extraction was from the deep recovery wells RW-1D and RW-2D, which are screened in the confined portion of the Lower Patapsco aquifer. Additional information concerning the initial operation of the system will be provided in the Corrective Measures Implementation (CMI) Report for the Site.
- During system operation, water samples were periodically collected for chemical analysis to monitor and evaluate VOC concentrations in the combined influent from the recovery wells. (Copies of the certified laboratory reports for these samples will be provided in the CMI Report.) Total concentrations of VOCs (including 1,4-dioxane) for the system influent ranged from 606 micrograms per liter ($\mu\text{g/l}$) to 934 $\mu\text{g/l}$, with the levels exhibiting a gradual decrease during the reporting period. Analysis of the treated water samples indicated non-detect concentrations of the site-related VOCs.
- Based on data gathered during the initial operation period, the following modifications were made regarding treatment system contingencies that were implemented during the start-up period:
 - Discontinuation of the use of granular activated carbon (GAC) that was temporarily placed upstream of the AMBERSORB® resin to remove foulants that may be present in the untreated water (mid-April 2017)
 - Cessation of iron sequestrant addition for the removal of iron from the influent (early June 2017)The disconnection of the temporary GAC vessel was based on the non-detect levels of anionic surfactants in the initial influent samples. Iron sequestrant addition was discontinued due to the consistent non-detect concentrations of iron in the untreated water. (Further discussion of the operation sampling data related to these treatment contingencies will be provided in the CMI Report.)
- In conjunction with the system operation, sampling of the treated effluent was performed in accordance with State Discharge Permit Number 15-DP-3442 and National Pollutant Discharge Elimination System (NPDES) Permit MD 0069094 (Permit) issued by MDE. Overall, the sampling results indicate compliance with the effluent limitations specified in the Permit, with the exception of minor, short-term exceedances of the lower pH limit in early April 2017 and late May 2017. For each noncomplying incident, WSP provided the appropriate verbal and written notifications to the Compliance Program of the MDE Water Management Administration in accordance with the reporting requirements in the Permit. Copies of the written notifications of noncompliance submitted to MDE are provided in Attachment A.

- On April 17, 2017, information was provided via electronic mail to the Wastewater Permits Program of the MDE Water Management Administration summarizing the biochemical oxygen demand (BOD) and dissolved oxygen (DO) levels in the treated effluent. Given BOD levels below the method reporting limit in the treated effluent, MDE notified EMERSUB 16 and WSP via a May 30, 2017, letter that the sampling data was sufficient to satisfy the requirements of the BOD study prescribed in Special Condition R of the Permit. Further evaluation and modeling of the water quality effects in the receiving stream (Stony Run) would not be necessary to fulfill the permit requirement.

During the reporting period, WSP implemented quarterly Whole Effluent Toxicity (WET) testing for the treated effluent in accordance with the Biomonitoring Study Plan, with modifications to the sample collection procedure approved by MDE. The first quarterly sampling event was conducted in late June 2017. The laboratory report of the WET test results was received and WSP in early July 2017, and has been provided to MDE in accordance with the Permit. Evaluation of the test results with respect to information provided by the MDE Water Management Administration indicates no adverse toxicity associated with the treated water discharge.

1.2 GROUNDWATER LEVEL MONITORING

- During the reporting period, groundwater level monitoring was conducted to gather data necessary to evaluate the hydraulic response to remedial pumping in both the unconfined and confined zones. The specific monitoring activities included the following:
 - Continuous measurement of water levels in the co-located piezometers for the shallow recovery wells and monitoring wells located near the shallow and deep recovery wells during the first week of continuous pumping (March 29 – April 5, 2017);
 - Hand measurement of water levels in the co-located piezometers for the deep recovery wells and monitoring wells located a significant distance upgradient of the shallow and deep recovery wells; and
 - Synoptic rounds of water level data from monitoring wells and recovery well piezometers comprising the monitoring network at several times between April 7th and April 17th, and on May 1st and May 8th.

The water levels for the April 7th through May 8th measurement rounds, together with pre-pumping data, are provided in Table 1.

- Water level contour maps for the May 8, 2017, measurement event (Figures 1 and 2) depict hydraulic head conditions in the shallow, unconfined zone after more than one month of continuous groundwater withdrawal, which can be presumed to represent a steady-state pumping condition. The water table contour map (Figure 1) indicates a slight localized depression in the vicinity of well MW-38R in response to groundwater extraction from the shallow recovery wells. The most pronounced head changes (i.e., drawdown) occurred within the permeable sand deposits comprising the lower portion of the unconfined zone (Figure 2). The decline in the piezometric surface in the vicinity of extraction well RW-2S is believed to reflect the superposition of drawdown from the simultaneous pumping of all three recovery wells combined with a reduction in the thickness of the sand unit southward from the area around RW-2S. The influence of these factors would be accentuated by the limited recharge to the shallow hydrogeologic unit caused by the presence of the new warehouse buildings and adjacent surface pavement. Assuming horizontally isotropic conditions, dissolved VOCs in the upper portion of the unconfined zone will migrate horizontally towards the area around wells RW-1S and RW-2S and vertically downward from the clayey unit to the underlying sand unit in response to the vertical flow component created by remedial pumping. Any vertical leakage of VOC-containing groundwater would be captured as part of the inflow to RW-1S and RW-2S. The groundwater capture area for the shallow recovery well system encompasses the width of the downgradient portion of the VOC plume as defined by the baseline sampling data from the following monitoring wells (listed from south to north): MW-44, MW-18, MW-39, MW-03, and MW-43. (More detailed information concerning evaluation of the groundwater level data during the initial operational phase will be provided in the CMI Report.)
- A potentiometric surface contour map for the confined portion of the Lower Patapsco aquifer using the May 8, 2017, water level measurements is provided in Figure 3. The head distribution, which can be presumed to reflect a steady state pumping condition, shows the creation of a well-developed, elongate hydraulic sink along the southern property boundary in response to groundwater withdrawals from the deep recovery wells. The more pronounced drawdown in the vicinity of well RW-2D



largely reflects the higher pumping rate for this well (34 GPM) compared to RW-1D (28 GPM). Comparison of the pre-pumping and pumping head values indicates drawdown of the potentiometric surface extending more than 250 feet south, or hydraulically downgradient, on to the adjoining Williams Scotsman property. Based on the flow paths in response to the hydraulic gradients created during pumping, the groundwater inflow area for the deep recovery wells appears to encompass the inferred width of the VOC plume in the confined portion of the Lower Patapsco aquifer in the southern portion of the Site as defined by the baseline sampling data from monitoring wells MW-40D and MW-22D. (Additional information concerning the groundwater monitoring data and evaluation of system performance will be provided in the CMI Report.)

1.3 GROUNDWATER QUALITY MONITORING

- In accordance with the Groundwater Monitoring Plan for the response activities, groundwater quality samples were collected from the shallow and deep recovery wells and designated monitoring wells during the week of May 1, 2017. Samples from the shallow and deep monitoring wells were collected using the HydraSleeve passive sampler. The samplers were deployed to the same depths within the well screens as those for the baseline sampling event (see Table 1 in Quarterly Progress Report No. 1, dated February 15, 2017). Following equilibration, samples were obtained by continuously pulling upward on each HydraSleeve until full, and then immediately decanting a representative portion of the collected water into the laboratory-supplied containers. For the recovery wells, the groundwater samples were collected directly from an in-line sampling port located at the well-head. The samples were submitted to the Pace Analytical Services laboratory in Huntersville, North Carolina, and analyzed for VOCs using USEPA SW-846 Test Method 8260B and 1,4-dioxane using modified USEPA Method 8260B with selective ion monitoring.

The analytical results for the primary VOCs detected in the monitoring and recovery well samples are summarized in Table 2. A copy of the certified laboratory analytical report for the samples is included in Enclosure A.

- For the shallow (unconfined) zone, concentrations of the primary VOCs in the recovery well samples are generally similar to those detected in the baseline (December 2016) samples, with total VOC concentrations of greater than 2,000 µg/l in the RW-1S and RW-2S samples and significantly lower levels in the groundwater at RW-3S (Figure 4). Although additional sampling data is needed to better discern changes in the VOC distribution in response to groundwater extraction by the shallow recovery wells, a comparison of the baseline and May 2017 results notes the following:
 - An increase in 1,4-dioxane concentrations in samples from wells screened in the upper clayey deposits in the western portion of the Site (e.g., MW-05R and MW-38R); and
 - The presence of detectable VOC levels in the May 2017 sample from well MW-44, south of the recovery wells

No VOCs were detected at concentrations above the cleanup criteria in the samples collected from wells situated near the western Site boundary.

- Total VOC concentrations were higher in the May 2017 samples from the deep recovery wells compared to the December 2016 baseline data, although the apparent increase may simply reflect the sampling method – low-flow purging versus the collection of extracted groundwater during remedial pumping – for each event. Furthermore, higher VOC levels were detected in the sample for well RW-2D in the southeastern portion of the Site compared to RW-1D (Figure 5). Overall, the concentrations of the primary VOCs in the May 2017 monitoring well samples are similar to the levels detected in the baseline event. The only noticeable difference is a slight increase in the concentrations for the sample from monitoring well MW-21D, which is located in close proximity to recovery well RW-1D. VOC concentrations in the samples collected from well MW-41D, which is screened in the lower portion of the confined hydrogeologic unit, remain below the cleanup criteria indicating no downward migration of constituents in response to remedial pumping from the deep recovery wells.

2.0 PLANNED ONSITE ACTIVITIES FOR NEXT REPORTING PERIOD (JULY 2017 – SEPTEMBER 2017)

- Submit the CMI Report to the EPA and MDE in accordance with Section VI.B.1 of the Consent Order.

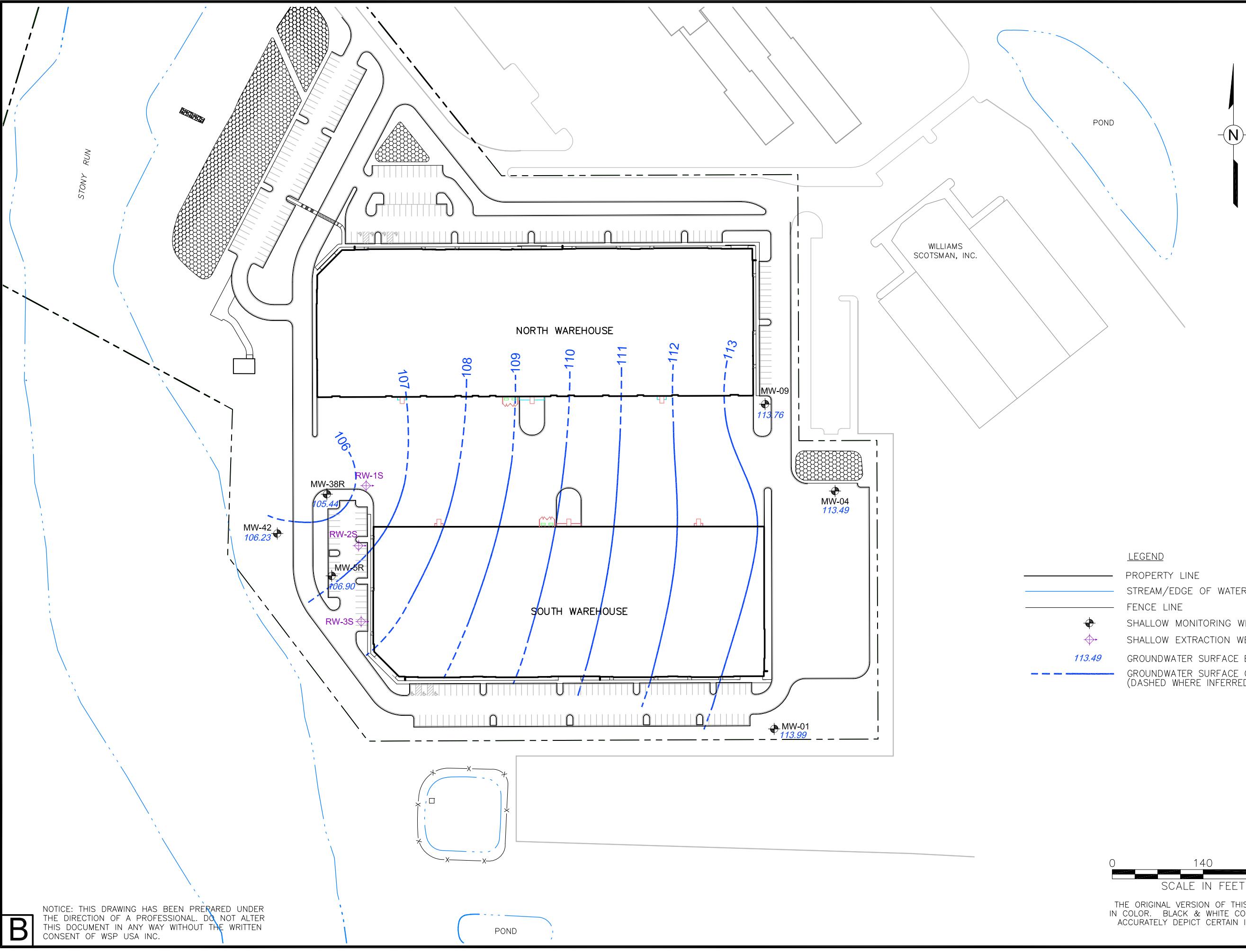


- Provide a copy of the Operation and Maintenance (O&M) Manual to EPA and MDE as specified in the approved Response Action Plan.
- Continue with the operation and maintenance activities for the hydraulic containment system.
- Conduct the necessary effluent monitoring and reporting activities for the system discharge pursuant to the Permit and MDE-approved Biomonitoring Study Plan.
- Perform quarterly water level measurements and sampling of the discharge from each shallow and deep recovery well as described in the Groundwater Monitoring Plan, and evaluate the data to assess the aquifer response to remedial pumping and capture of the VOC plumes in the unconfined and confined zones.

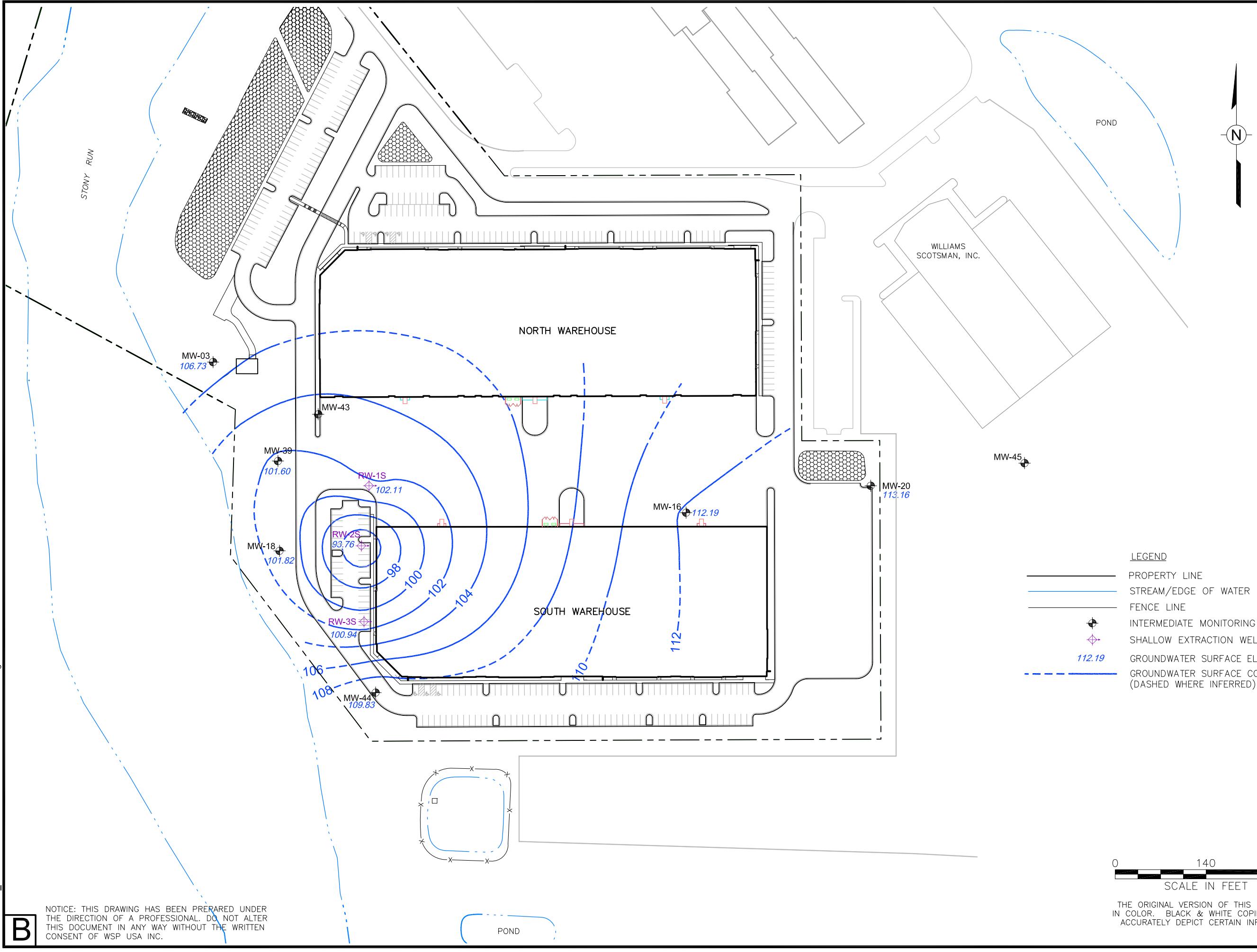
3.0 KEY PERSONNEL/FACILITY CHANGES

There were no changes to key project personnel during the reporting period. However, we note that WSP Parsons Brinckerhoff, which is EMERSUB 16's designated Professional Engineer under Section VI.C.5 of the Consent Order, rebranded to become WSP USA, Inc. Please let us know if this name change necessitates an amendment to the Consent Order.

FIGURES



Drawn By: EGC	Checked: <i>MCR</i> 7/24/2017
Approved: <i>RJ</i>	
DWG Name: 314V0390-043	
FIGURE 1	
FORMER KOP-FLEX FACILITY SITE HANOVER, MARYLAND PREPARED FOR EMERSUB 16 LLC ST. LOUIS, MISSOURI	
GROUNDWATER SURFACE CONTOUR MAP AFTER APPROXIMATELY 6 WEEKS OF PUMPING (MAY 8, 2017)	
<small>WSP USA Inc. 13530 DULLES TECHNOLOGY DR SUITE 300 HERNDON, VA 20171 TEL: +1 703.709.6500</small>	



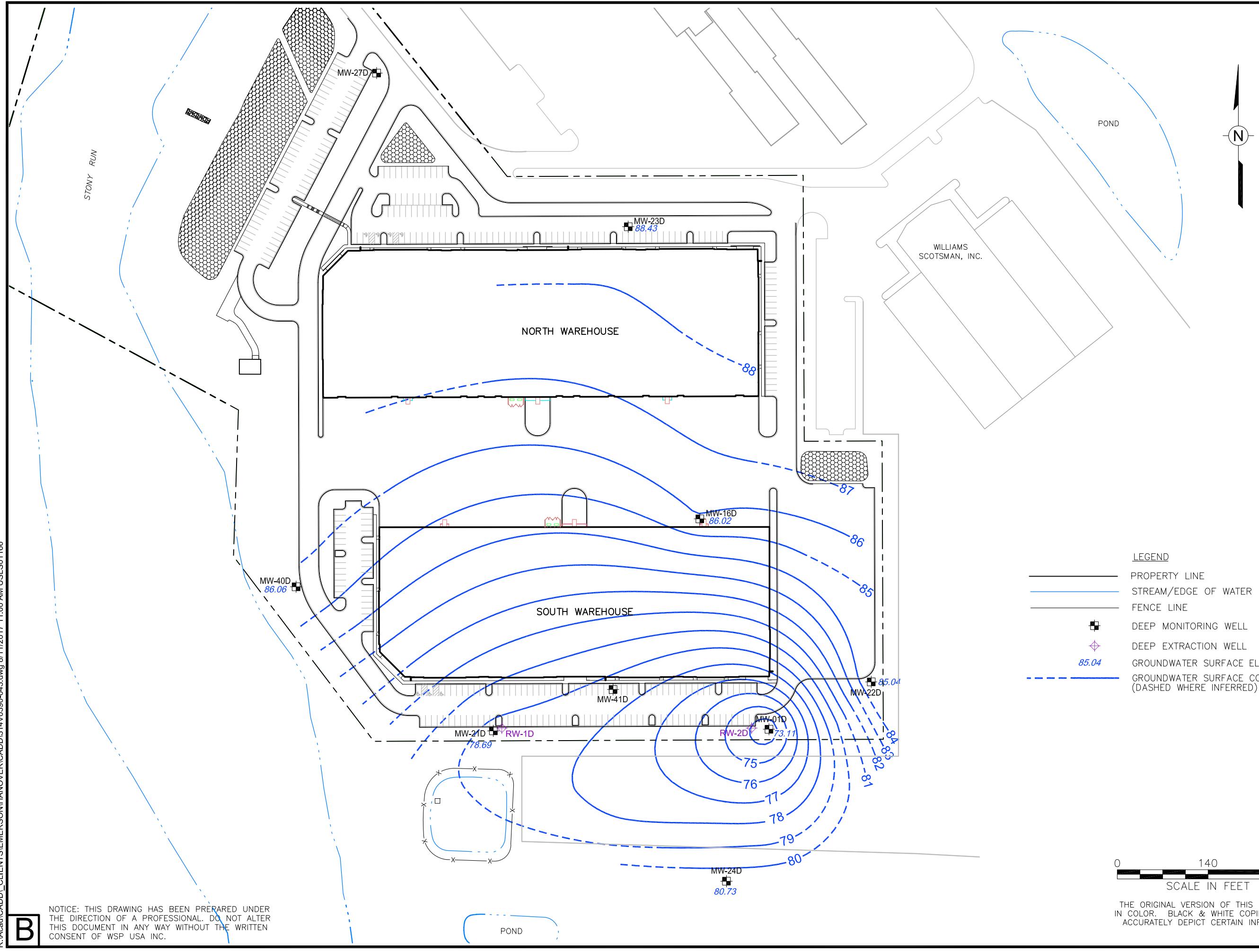
Drawn By: EGC
Checked: MCR 7/24/2017
Approved: RG
DWG Name: 314V0390-043

FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

FIGURE 2
PIEZOMETRIC SURFACE IN THE LOWER PORTION
OF SHALLOW (UNCONFINED) ZONE AFTER
APPROXIMATELY 6 WEEKS OF PUMPING (MAY 8, 2017)

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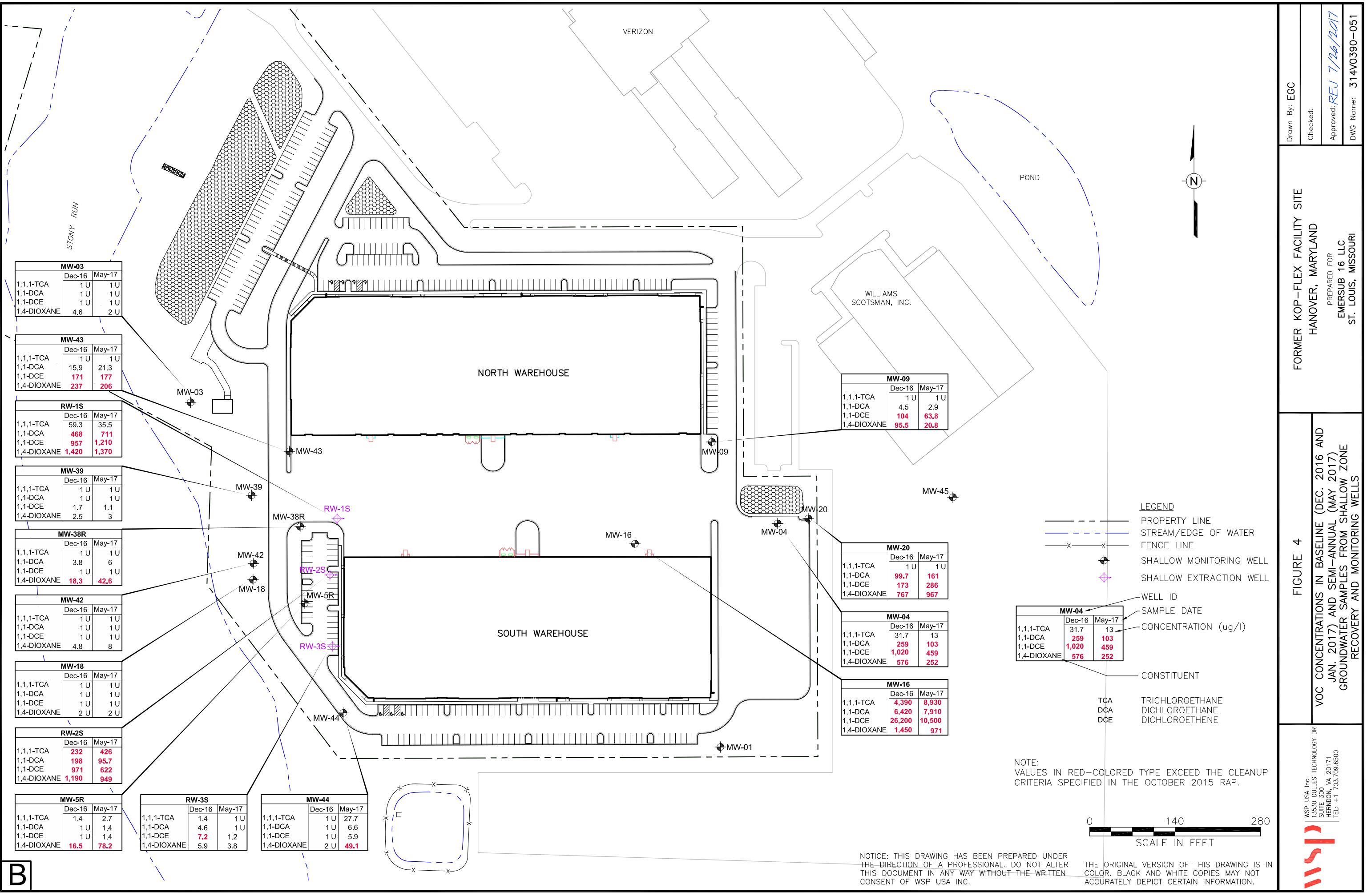
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DWG Name: 314V0390-043

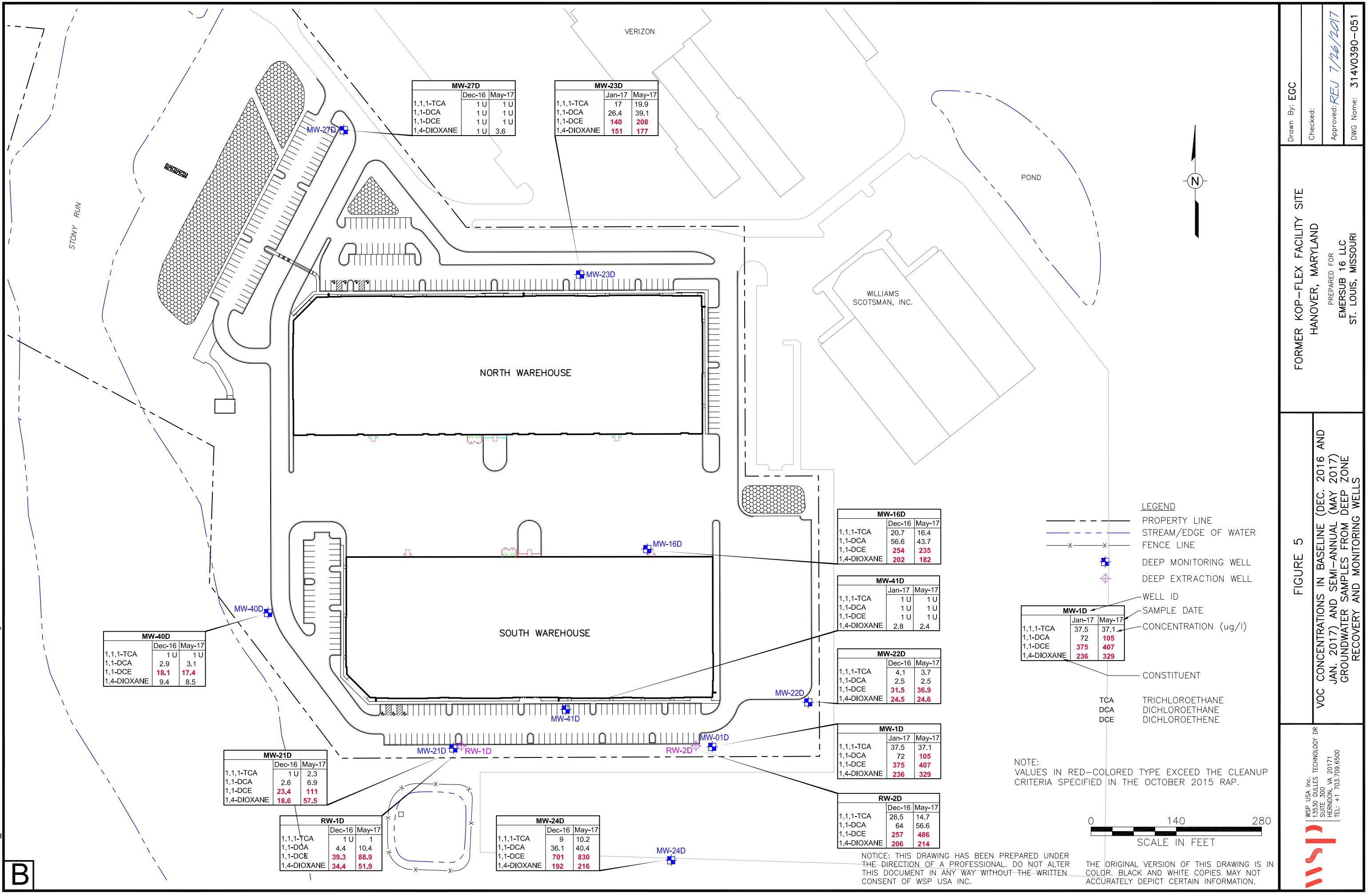
FORMER KOP-FLEX FACILITY SITE
HANOVER, MARYLAND
PREPARED FOR
EMERSUB 16 LLC
ST. LOUIS, MISSOURI

FIGURE 3
POTENTIOMETRIC SURFACE CONTOUR MAP
FOR CONFINED ZONE OF LOWER
PATAPSCO AQUIFER - MAY 8, 2017

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TABLES

Table 1

**Historical Water Level Measurements in Monitoring Wells
and Recovery Well Piezometers
Former Kop-Flex Facility Site
Hanover, Maryland
(December 2016 through June 2017) (a)**

Well ID	Zone	TOC elevation	12/7/2016		3/21/2017		4/7/2017		4/10/2017		4/13/2017		4/17/2017		5/1/2017		5/8/2017	
			Depth to Water	Groundwater Elevation														
MW-01	Shallow	129.8	NM	-	16.16	113.64	15.93	113.87	15.95	113.85	15.94	113.86	15.90	113.90	15.92	113.88	15.81	113.99
MW-03	Shallow	113.6	6.78	106.82	6.79	106.81	6.41	107.19	6.76	106.84	6.91	106.69	6.90	106.70	6.96	106.64	6.87	106.73
MW-04	Shallow	124.4	12.28	112.12	11.17	113.23	11.05	113.35	11.09	113.31	11.06	113.34	11.13	113.27	10.95	113.45	10.91	113.49
MW-5R	Shallow	123.5	15.87	107.63	15.98	107.52	16.15	107.35	16.38	107.12	16.45	107.05	16.47	107.03	16.60	106.90	16.60	106.90
MW-09	Shallow	125.1	10.84	114.26	11.51	113.59	11.41	113.69	11.41	113.69	11.51	113.59	11.48	113.62	11.41	113.69	11.34	113.76
MW-16	Shallow	124.0	10.92	113.08	11.66	112.34	11.74	112.26	11.81	112.19	11.82	112.18	12.08	111.92	11.99	112.01	11.81	112.19
MW-18	Shallow	125.1	20.77	104.33	22.85	102.25	22.85	102.25	23.11	101.99	23.18	101.92	23.19	101.91	23.30	101.80	23.28	101.82
MW-20	Shallow	125.4	NM	-	12.5	112.90	12.33	113.07	12.31	113.09	12.3	113.10	13.38	112.02	13.01	112.39	12.24	113.16
MW-38R	Shallow	125.4	15.58	109.82	19.64	105.76	19.6	105.80	20.81	104.59	19.81	105.59	19.84	105.56	19.94	105.46	19.96	105.44
MW-39	Shallow	124.6	NM	-	22.64	101.96	22.55	102.05	21.86	102.74	23	101.60	23.01	101.59	23.05	101.55	23.00	101.60
MW-42	Shallow	125.9	16.18	109.72	19.28	106.62	19.33	106.57	19.52	106.38	19.49	106.41	19.55	106.35	19.68	106.22	19.67	106.23
MW-43	Shallow	122.8	19.25	103.55	20.68	102.12	20.31	102.49	20.61	102.19	21.81	100.99	20.92	101.88	21.11	101.69	20.90	101.90
MW-44	Shallow	127.1	14.93	112.17	17.7	109.40	17.08	110.02	17.18	109.92	17.35	109.75	17.23	109.87	17.31	109.79	17.27	109.83
MW-45	Shallow	126.7	NA	-	14.1	112.62	13.85	112.87	13.85	112.87	13.85	112.87	13.75	112.97	13.67	113.05	13.60	113.12
RW-1S	Shallow	122.9	12.96	109.94	12.96	109.94	20.36	102.54	20.6	102.30	20.56	102.34	20.60	102.30	20.80	102.10	20.79	102.11
RW-2S	Shallow	123.5	14.12	109.38	28.55	94.95	28.88	94.62	29.81	93.69	29	94.50	29.14	94.36	29.61	93.89	29.74	93.76
RW-3S	Shallow	125.4	14.29	111.11	20.34	105.06	23.49	101.91	23.59	101.81	23.69	101.71	23.73	101.67	24.32	101.08	24.46	100.94
MW-1D	Deep	129.4	42.81	86.59	56.15	73.25	56.06	73.34	56.22	73.18	56.44	72.96	56.37	73.03	56.40	73.00	56.29	73.11
MW-16D	Deep	124.1	34.91	89.19	37.55	86.55	37.6	86.50	38.02	86.08	38.1	86.00	37.94	86.16	37.98	86.12	38.08	86.02
MW-21D	Deep	126.3	37.8	88.50	47.12	79.18	47.26	79.04	47.57	78.73	47.61	78.69	47.58	78.72	47.54	78.76	47.61	78.69
MW-22D	Deep	128.9	40.78	88.07	43.28	85.57	43.3	85.55	43.59	85.26	43.76	85.09	43.73	85.12	43.82	85.03	43.81	85.04
MW-23D	Deep	125.2	35.14	90.06	36.33	88.87	36.29	88.91	36.72	88.48	36.81	88.39	36.61	88.59	36.71	88.49	36.77	88.43
MW-24D	Deep	129.1	46.3	82.80	47.44	81.66	47.71	81.39	48	81.10	48.16	80.94	48.29	80.81	48.35	80.75	48.37	80.73
MW-27D	Deep	117.2	29.66	87.54	27.73	89.47	27.68	89.52	28.18	89.02	28.3	88.90	28.03	89.17	28.21	88.99	28.21	88.99
MW-40D	Deep	124.1	35.14	88.96	37.19	86.91	37.51	86.59	37.98	86.12	37.98	86.12	37.85	86.25	38.01	86.09	38.04	86.06
MW-41D	Deep	127.1	41.98	85.12	44.00	83.10	44.06	83.04	44.48	82.62	44.56	82.54	44.43	82.67	44.61	82.49	44.62	82.48
RW-1D	Deep	126.9	38.53	88.37	58.69	68.21	59.02	67.88	59.06	67.84	59.02	67.88	59.26	67.64	58.88	68.02	58.99	67.91
RW-2D	Deep	127.4	42.31	85.09	68.82	58.58	68.51	58.89	68.39	59.01	68.78	58.62	68.63	58.77	68.70	68.44	58.96	

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.

Table 2

Semi-Annual Groundwater Monitoring Event (May 2017)

Former Kop Flex Facility Site

Hanover, MD

Parameters	Well ID: Groundwater Cleanup Standards ($\mu\text{g/L}$) (b)	Shallow Monitoring Wells												RW-1S	Shallow Recovery Wells			
		MW-03	MW-04	MW-5R	MW-09	MW-16	MW-18	MW-20	MW-38R	MW-39	MW-42	MW-43	MW-44		MW-200 (c)	RW-2S	RW-3S	
		5/1/2017	5/2/2017	5/1/2017	5/2/2017	5/2/2017	5/1/2017	5/2/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017	5/2/2017	5/1/2017	5/1/2017	
Volatile Organic Compounds (US EPA Method 8260)																		
1,1,1-Trichloroethane	200		1.0 U	13.0	2.7	1.0 U	8,930	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	27.7	35.5	31.3	426	1.0 U	
1,1-Dichloroethane	90		1.0 U	103	1.4	2.9	7,910	1.0 U	161	6.0	1.0 U	1.0 U	21.3	6.6	711	741	95.7	1.0 U
1,1-Dichloroethene	7	1.0 U	459	1.4	63.8	10,500	1.0 U	286	1.0 U	1.1	1.0 U	177	5.9	1,210	1,320	622	1.2	
1,2-Dichloroethane	5		1.0 U	4.0 U	1.0 U	1.0 U	225	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	10 U	10 U	5.0 U	1.0 U	
Chloroethane	3.6		1.0 U	4.0 U	1.0 U	1.0 U	100 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	25.5	24.6	5.0 U	1.0 U	
cis-1,2-Dichloroethene	70		1.0 U	4.0 U	1.0 U	1.0 U	100 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	10 U	10 U	5.0 U	1.0 U	
Tetrachloroethene	5		1.0 U	4.0 U	1.0 U	1.0 U	100 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	10 U	10 U	5.00 U	1.0 U	
Trichloroethene	5		1.0 U	4.0 U	1.0 U	1.0 U	100 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	10 U	5.3	1.0 U		
Vinyl chloride	2		1.0 U	4.0 U	1.0 U	1.0 U	100 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	1.0 U	10 U	10 U	5.0 U	1.0 U	
Volatile Organic Compounds (US EPA Method 8260 - SIM)																		
1,4-Dioxane	15		2.0 U	252	78.2	20.8	971	2.0 U	967	42.6	3.0	8.0	206	49.1	1,370	1,000	949	3.8
Parameters	Well ID: Groundwater Cleanup Standards ($\mu\text{g/L}$) (b)	Deep Monitoring Wells										Deep Recovery Wells						
		MW-1D	MW-16D	MW-100 (c)	MW-21D	MW-22D	MW-23D	MW-24D	MW-27D	MW-40D	MW-41D	RW-1D	RW-2D					
		5/1/2017	5/2/2017	5/2/2017	5/1/2017	5/1/2017	5/1/2017	5/2/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017	5/1/2017		
Volatile Organic Compounds (US EPA Method 8260)																		
1,1,1-Trichloroethane	200	37.1	16.4	17.3	2.3	3.7	19.9	10.2	1.0 U	1.0 U	1.0 U	1.0	14.7					
1,1-Dichloroethane	90	105	43.7	46.5	6.9	2.5	39.1	40.4	1.0 U	3.1	1.0 U	10.4	56.6					
1,1-Dichloroethene	7	407	235	246	111	36.9	208	830	1.0 U	17.4	1.0 U	88.9	486					
1,2-Dichloroethane	5	5.7	2.9	2.8	1.4	1.0 U	2.4	5.6	1.0 U	1.0 U	1.0 U	1.0 U	4.5					
Chloroethane	3.6	2.5 U	2.0 U	2.0 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	4.0 U					
cis-1,2-Dichloroethene	70	2.5 U	2.0 U	2.0 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	4.0 U					
Tetrachloroethene	5	2.5 U	2.0 U	2.0 U	1.0 U	1.0 U	2.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	4.0 U					
Trichloroethene	5	2.5 U	2.0 U	2.0 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	4.0 U					
Vinyl chloride	2	2.5 U	2.0 U	2.0 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	4.0 U					
Volatile Organic Compounds (US EPA Method 8260 - SIM)																		
1,4-Dioxane	15	329	182	202	57.5	24.6	177	216	3.6	8.5	2.4	51.9	214					

a/ ug/L = micrograms per liter; U = not detected above method detection limits; EPA = Environmental Protection Agency; SIM = selected ion method; VOCs= volatile organic compounds; SIM = selected ion method.

Results shown in **bold** and highlight exceed the comparison standard.

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

c/ MW-200 is a duplicate of RW-1S; MW-100 is a duplicate of MW-16D.

**ENCLOSURE A - NOTIFICATIONS TO MDE OF NONCOMPLIANCE WITH NPDES
PERMIT DISCHARGE LIMITATIONS**

VIA ELECTRONIC MAIL

April 3, 2017

Maryland Department of the Environment
Water Management Administration – Compliance Program
1800 Washington Boulevard
Suite 425
Baltimore, Maryland 21230-1708

Re: Noncompliance with State Discharge Permit No. 15DP34422,
NPDES Permit MD0069094 Effluent Limitation for Zinc

Discharge Monitoring Reports:

On behalf of Emersub 16, LLC, WSP USA Corp (WSP) is submitting this letter to notify the Maryland Department of Environment (MDE) of an effluent limitation noncompliance, in accordance with General Condition B.2 – Noncompliance with Effluent Limitations of State Discharge Permit No. 15DP3442, National Pollutant Discharge Elimination System (NPDES) Permit MD 0069094 for the site located at 7565 Harmans Road in Hanover, Anne Arundel County, Maryland (the Site). As required in General Condition B.2, WSP also notified the MDE Compliance Program of the situation by telephone the morning of March 29, 2017. Noncompliance information is provided below in accordance with General Condition B.2.a.

General Condition B.2.a – A description of the non-complying discharge including its impact upon the receiving waters

Under the MDE Voluntary Cleanup Program, response actions have been developed for the Site, including the installation of a groundwater extraction and treatment system (System). The purpose of the System is to pump and treat affected groundwater prior to its discharge to Stony Run. Groundwater is extracted from five recovery wells equipped with dedicated electric submersible extraction pumps. Sub-grade water conveyance piping routes the extracted groundwater to the treatment system located on the property. The groundwater is treated to meet the NPDES permit discharge limits using bag filters for suspended solids removal, a metering pump for the addition of an iron sequestering agent, synthetic resin for the removal of volatile organic compounds and 1,4-dioxane, a metering pump for the addition of caustic soda for pH buffering, and an in-line aerator to increase dissolved oxygen levels.

WSP began operating the System on March 10, 2017, at a reduced flow rate of 20 gallons per minute (GPM) for 2 hours. The week of March 13, 2017, WSP operated the System up to 8 hours per day through March 17, 2017, gradually increasing flow from 20 GPM, to a maximum flow of 70 GPM on March 17, 2017, when the System was shutdown. During the week of March 20, 2017, the System operated continuously at a flow rate of 75 GPM, until shutdown on Friday afternoon, March 24, 2017. The System was restarted on Wednesday morning, March 29, 2017, at a flow rate of approximately 75 GPM, and remains in continuous operation. Based on the System effluent totalizer, 72,000 gallons of treated groundwater was discharged to Stony Run via Outfall 001 between March 13 and 20, 2017, and 468,000 gallons were discharged between March 20 and 29, 2017 .

In accordance with the NPDES permit, weekly samples have been collected of the System effluent since the System began operating for the set of parameters specified in the permit. The results of

weekly samples collected on March 20, 2017, were received from the laboratory on March 28, 2017. The total zinc concentration in the discharge sample, 179 micrograms per liter ($\mu\text{g/l}$) exceeded the permit limit (120 $\mu\text{g/l}$).

Zinc was not detected in the previous weekly sample collected from the discharge on March 13, 2017 (analyzed to a laboratory reporting limit of 20 $\mu\text{g/l}$), and was detected at 27.2 $\mu\text{g/l}$ in the following weekly discharge sample on March 29, 2017. Therefore, the exact duration of the zinc exceedance is unknown.

General Condition B.2.b. – Cause of noncompliance

Upon identifying the discharge of treated groundwater above the total zinc discharge limit prescribed in the NPDES permit, WSP initiated an evaluation of potential causes, including groundwater and System components. Data collection remains underway to determine the cause.

General Condition B.2.c. – Anticipated time the condition of noncompliance is expected to continue

WSP collected a weekly discharge sample on March 29, 2017, when operation of the System was resumed, and expedited the analysis for zinc following the previous sample's exceedance. The total zinc concentration in the expedited analysis, received on March 31, 2017, was 27.2 $\mu\text{g/l}$, below the permit limit (120 $\mu\text{g/l}$). Based on this information, the condition of noncompliance is no longer occurring.

General Condition B.2.d. – Steps taken by the permittee to reduce and eliminate the non-complying discharge

WSP initiated an evaluation of potential causes of the zinc exceedance immediately after identifying the exceedance. Data collection remains underway to determine the source of the zinc exceedance. System modifications will be implemented, as necessary, to ensure a non-complying discharge does not reoccur.

General Condition B.2.e. – Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance

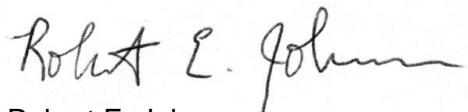
An evaluation is underway to determine the source of the zinc exceedance. System modifications will be implemented, as necessary, to maintain zinc concentrations below the permit limit.

General Condition B.2.f. – A description of the accelerated or additional monitoring by the permittee to determine the nature and impact of the noncomplying discharge

WSP collected a weekly sample on March 29, 2017, when operation of the System was resumed. The analysis of the sample was expedited when WSP received the laboratory analytical report from the previous weekly sampling that indicated the zinc exceedance. WSP received the results of the expedited zinc analysis on March 31, 2017. Because the total zinc concentrations in the weekly discharge samples collected on March 13th and March 29th were below the permit limit, WSP believes the noncomplying discharge on March 20th was an anomaly. WSP will continue to monitor the zinc concentration in the effluent pursuant to the permit, and confirm concentrations remain below the permit limit.

Please do not hesitate to contact me with any questions.

Sincerely,

A handwritten signature in black ink that reads "Robert E. Johnson".

Robert E. Johnson
Senior Technical Manager - Environment

REJ:rlo

K:\Emerson\Kop-Flex\NPDES Permit\MDE Exceedance Notifications\2017\April\04032017 Zinc
Exceedance\04032017_Zn_Exceedance_MDE_Notification_FINAL.docx

cc: Steve Clarke, President, Emersub 16, LLC (via electronic mail)
Steve Kretschman, P.E., WSP USA Corp. (via electronic mail)

VIA ELECTRONIC MAIL

April 8, 2017

Heidi Slagle
Maryland Department of the Environment
Water Management Administration – Compliance Program
1800 Washington Boulevard
Suite 425
Baltimore, Maryland 21230-1708

Re: Noncompliance with State Discharge Permit 15DP3442 and
NPDES Permit MD0069094
Effluent Limitation for pH

Dear Ms. Slagle:

On behalf of Emersub 16, LLC, WSP USA Corp (WSP) is submitting this letter to notify the Maryland Department of Environment (MDE) of an effluent limitation noncompliance, in accordance with General Condition B.2 – Noncompliance with Effluent Limitations of State Discharge Permit No. 15DP3442, National Pollutant Discharge Elimination System (NPDES) Permit MD 0069094 for the site located at 7565 Harmans Road in Hanover, Anne Arundel County, Maryland (the Site). As required in General Condition B.2, WSP also notified the MDE Compliance Program of the situation by telephone on the afternoon of April 3, 2017. Noncompliance information that needs to be provided in accordance with General Condition B.2.a-f. is presented below.

General Condition B.2.a – A description of the non-complying discharge including its impact upon the receiving waters

Under the MDE Voluntary Cleanup Program, response actions have been developed for the Site, including the installation of a groundwater extraction and treatment system (System). The purpose of the System is to pump and treat affected groundwater prior to its discharge to Stony Run. Groundwater is extracted from five recovery wells equipped with dedicated electric submersible extraction pumps. Sub-grade water conveyance piping routes the extracted groundwater to a treatment system located on the property. The groundwater is treated to meet the NPDES permit discharge limits using bag filters for suspended solids removal, a metering pump for the addition of an iron sequestering agent, synthetic resin for the removal of volatile organic compounds (including 1,4-dioxane), a metering pump for the addition of caustic soda for pH buffering, and an in-line aerator to increase dissolved oxygen levels. When automated, the metering pump for the addition of caustic soda responds to a proportional-integral-derivative (PID) controller receiving pH readings from a probe placed in the conveyance piping prior to the discharge of treated groundwater to outfall 001.

The System was operated intermittently from March 10, 2017 to March 24, 2017. The system was re-started on March 29th and has been operating continuously since that date at a flow rate of approximately 70 GPM.

In accordance with the NPDES permit, weekly samples have been collected of the system effluent since the system began discharging water to Stony Run for the set of parameters specified in the permit. The effluent sampling for the week of April 2-8, 2017 was conducted in the early morning of

April 3rd. During this sampling event, the pH measurement for the treated water obtained using a handheld multi-parameter meter (Hach Sension + MM156 Portable Multimeter) was 6.3 standard units (SU), which is slightly below the NPDES effluent limit range of 6.5 – 8.5 SU. The pH values for treated water samples collected and analyzed later that day ranged from 6.5 to 6.6 SU. Although the pH of the effluent sample was slightly below the permit range, the System did not automatically send an alarm notifying the operator because the pH readings by the in-line probe were within the range of the set points for alarm activation.

Based on data collected as part of the operation and maintenance of the System, the estimated volume of treated groundwater that was discharged to Stony Run via Outfall 001 for the times the pH exceeded the effluent limit was 140,000 gallons.

General Condition B.2.b. – Cause of noncompliance

The noncompliant pH reading on the above dates were attributed to inaccurate pH measurements by the inline pH probe, thereby not automatically increasing the injection rate of caustic soda into the water stream to reach a level compliant with the permitted range (6.5 s.u. to 8.5 s.u.). WSP field staff evaluated the pH adjustment system after identifying the noncompliance, and determined the pH probe was reading slightly higher pH values than samples collected from the effluent sampling port and tested using the hand-held meter. The minor inaccuracy of the inline pH probe measurements may be caused by interference from the introduction of air upstream of the probe by operation of the aeration system used to increase the dissolved oxygen concentration of the water. In addition, WSP observed an inconsistent injection rate of the caustic soda caused by siphoning of caustic solution from the caustic feed piping. Under these conditions, the pH readings by the handheld meter may have been the result of a temporary under-dosing caused by the fluctuation in the caustic soda feed rate.

General Condition B.2.c. – Anticipated time the condition of noncompliance is expected to continue

WSP is in process of scheduling modifications to the pH adjustment system to address the issues associated with the aerator and caustic injection feed rate. The necessary modifications will be completed as quickly as possible.

General Condition B.2.d. – Steps taken by the permittee to reduce and eliminate the non-complying discharge

Until these System modifications are completed, the feed rate of caustic soda is being set manually to ensure the effluent pH is within the permit range. WSP will continue to periodically monitor the pH using the handheld meter and adjust the caustic soda addition accordingly. As indicated above, WSP is scheduling repairs to rectify the measurement issue with the in-line probe.

General Condition B.2.e. – Steps to be taken by the permittee to prevent recurrence of the condition of noncompliance

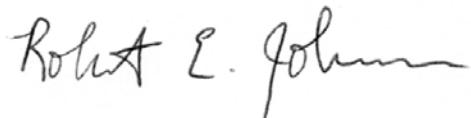
WSP believes this situation of noncompliance is attributable to the influence of the aerator and caustic injection rate on measurements by the pH probe. WSP will modify these System components to mitigate their detrimental effects, and operate the pH adjustment system in automated mode. After completion of the System start-up phase and determination the pH adjustment system is operating properly in automated mode, the alarm will be set to shut down the System when the probe indicates the effluent pH is outside the permitted range.

General Condition B.2.f. – A description of the accelerated or additional monitoring by the permittee to determine the nature and impact of the noncomplying discharge

WSP is continuing the collection of pH readings with a handheld pH meter to ensure compliance with the prescribed NPDES pH effluent range. Based on the effluent pH measurements, WSP may collect additional surface water quality data to determine if an impact to the stream is occurring.

Please do not hesitate to contact me with any questions.

Sincerely,

A handwritten signature in black ink that reads "Robert E. Johnson". The signature is fluid and cursive, with "Robert" and "E." being more stylized and "Johnson" being more legible.

Robert E. Johnson
Senior Technical Manager - Environment

REJ

k:\emerson\kop-flex\npdes permit\04072017_ph_exceedance_mde_notification_final.docx

cc: Steve Clarke, President, Emersub 16, LLC (via electronic mail)
Steve Kretschman, P.E., WSP USA Corp. (via electronic mail)



VIA ELECTRONIC MAIL

May 23, 2017

Heidi Slagle
Maryland Department of the Environment
Water Management Administration – Compliance Program
1800 Washington Boulevard
Suite 425
Baltimore, Maryland 21230-1708

Re: Noncompliance with State Discharge Permit 15DP3442 and NPDES Permit MD0069094 Effluent Limitation for pH

Dear Ms. Slagle:

On behalf of EMERSUB 16, LLC, WSP USA Inc. (WSP) is submitting this letter to notify the Maryland Department of Environment (MDE) of an effluent limitation noncompliance, in accordance with General Condition B.2 – Noncompliance with Effluent Limitations, of State Discharge Permit No. 15DP3442, National Pollutant Discharge Elimination System (NPDES) Permit MD 0069094 for the site located at 7565 Harmans Road in Hanover, Anne Arundel County, Maryland (the Site). As required in General Condition B.2, WSP also notified the MDE Compliance Program of the incident by electronic mail in the late afternoon on May 19, 2017, and by telephone on the morning of May 22, 2017. Noncompliance information that needs to be provided in accordance with General Condition B.2.a-f is presented below.

GENERAL CONDITION B.2.A – A DESCRIPTION OF THE NON-COMPLYING DISCHARGE INCLUDING ITS IMPACT UPON THE RECEIVING WATERS

Under the MDE Voluntary Cleanup Program, a groundwater extraction and treatment system (System) has been installed at the Site to control the migration of contaminants from the property. Groundwater is extracted from five recovery wells equipped with electric submersible extraction pumps, and the water is conveyed to a treatment system located on the property. The groundwater is treated to meet the NPDES permit discharge limits using bag filters for suspended solids removal, a metering pump for the addition of an iron sequestering agent, synthetic resin for the removal of volatile organic compounds (VOCs), including 1,4-dioxane, a metering pump for the addition of 25% caustic soda for pH buffering, and an in-line aerator to increase dissolved oxygen levels. When automated, the metering pump for the addition of caustic soda responds to a proportional-integral-derivative (PID) controller receiving pH readings from a probe placed in the conveyance piping prior to the discharge of treated groundwater to Stony Run via outfall 001. The System has been operating continuously since March 29, 2017, at a flow rate of 70-75 gallons per minute (GPM).

Treatment system operation requires the regular steam regeneration of two synthetic resin vessels to remove the adsorbed VOCs. During the initial phase of the resin regeneration process conducted on May 18, 2017, the flow increased to a rate approaching 80 GPM for a very short (1- to 2-hour) time period. The treated water pH was checked during this period of higher flow using a handheld multi-parameter meter (Hach Sension + MM156 Portable Multimeter). The measured pH of the discharge was 6.3 standard units (SU), which is slightly below the NPDES effluent limit range of 6.5 – 8.5 SU. The pH values for treated water samples collected under normal flow conditions (i.e., 70 – 75 GPM) both before and after this period of increased flow were approximately

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Herndon, VA 20171

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wsp.com



6.8 SU. At present, the feed rate of caustic soda is set automatically to adjust the effluent pH to within the permit range and the pH periodically checked using the handheld pH meter.

Based on data collected during the resin regeneration process, the estimated volume of treated groundwater that was discharged to Stony Run via Outfall 001 for the time the pH exceeded the effluent limit was approximately 7,100 gallons.

GENERAL CONDITION B.2.B. – CAUSE OF NONCOMPLIANCE

The noncompliant pH reading on the above date was attributed to the transient increase in the flow rate through the treatment system during the initial phase of the resin regeneration process. Under normal System flow conditions, the caustic soda injection rate produced by the metering pump had reached maximum capacity to ensure a pH level compliant with the permitted range. A review of the pump settings indicated the rate of caustic addition could not be increased during the short-term period of higher discharge during regeneration. WSP field staff evaluated the pH adjustment system and determined the size of the metering pump tubing and possible buildup of caustic in the tubing was a limiting factor to the caustic soda feed rate to the water stream.

GENERAL CONDITION B.2.C. – ANTICIPATED TIME THE CONDITION OF NONCOMPLIANCE IS EXPECTED TO CONTINUE

As discussed above, the transient decrease in pH is associated with the short term increase in flow during the initial phase of regeneration of synthetic resin, which occurs every 4 days. Upon discovery of the exceedance, WSP immediately evaluated options for modifying the amount of caustic soda added during upcoming regeneration events, and implemented changes to the pH adjustment system as quickly as possible. Modifications related to the addition of caustic soda should prevent a reduction in the discharge water pH below the 6.5 SU lower limit during periods of higher flow.

GENERAL CONDITION B.2.D. – STEPS TAKEN BY THE PERMITTEE TO REDUCE AND ELIMINATE THE NON-COMPLYING DISCHARGE

On May 19, 2017, the operation and maintenance (O&M) contractor for the System re-piped the suction line from the caustic storage tote to the metering pump with larger inside diameter tubing to allow for an increase the rate of 25% caustic soda addition to the water stream. After replacing the feed tubing, WSP staff noted an increase in the pH of the treated water under normal flow conditions. WSP and the O&M contractor will continue to monitor the discharge pH during all phases of treatment system operation to ensure compliance with the prescribed NPDES pH effluent range. As an additional safety measure, WSP will reprogram the controls to initiate a System shut-down if an alarm condition indicates a pH level outside of the specified limits.

GENERAL CONDITION B.2.E. – STEPS TO BE TAKEN BY THE PERMITTEE TO PREVENT RECURRENCE OF THE CONDITION OF NONCOMPLIANCE

WSP believes the transient pH noncompliance was attributable to factors that limited the addition of sufficient caustic soda to increase the treated water pH to within the permitted range of 6.5 – 8.5 SU. As indicated above, WSP has modified the intake tubing to increase the amount of 25% caustic soda that can be added to the water stream and will continue to check the pH of the discharge. The operational information reviewed to date suggest this modification will maintain the pH within the permit range during variations in System flow. WSP will carefully monitor the discharge water to ensure the aforementioned modification is able to adequately adjust the pH under varying flow conditions. If subsequent measurements indicate a similar or unanticipated pH exceedance, EMERSUB 16 and WSP will promptly evaluate and implement additional modifications to the System to ensure compliance with the permit requirements.



GENERAL CONDITION B.2.F. - A DESCRIPTION OF THE ACCELERATED OR ADDITIONAL MONITORING BY THE PERMITTEE TO DETERMINE THE NATURE AND IMPACT OF THE NONCOMPLYING DISCHARGE

WSP is continuing to monitor the pH recorded by the in-line probe and to periodically collect pH readings with the handheld meter to ensure compliance with the prescribed NPDES pH effluent range. As mentioned above, EMERSUB 16 and WSP will take immediate corrective action in the event of any future unanticipated exceedance. Based on the subsequent effluent pH measurements, WSP may collect additional surface water quality data to determine if an impact to the stream is occurring.

Please do not hesitate to contact me with any questions.

Sincerely,

Robert E. Johnson
Senior Technical Manager – Water & Environment

REJ:rlo
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cc: Steve Clarke, President, EMERSUB 16, LLC (via electronic mail)
Steve Kretschman, P.E., WSP USA Corp. (via electronic mail)

**ENCLOSURE B – CERTIFIED LABORATORY REPORTS FOR SEMI-ANNUAL
GROUNDWATER SAMPLES FROM RECOVERY WELLS AND MONITORING
WELLS (MAY 2017)**

May 10, 2017

Eric Johnson
WSP Environmental Strategies
11190 Sunrise Valley Dr.
Suite #300
Reston, VA 20191

RE: Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Dear Eric Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2017. 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,



Kevin Godwin
kevin.godwin@pacelabs.com
1(704)875-9092
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Charlotte Certification IDs

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

South Carolina 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: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92339162001	MW-23D-050117	Water	05/01/17 08:35	05/03/17 09:30
92339162002	MW-27D-050117	Water	05/01/17 09:00	05/03/17 09:30
92339162003	MW-03-050117	Water	05/01/17 09:20	05/03/17 09:30
92339162004	MW-43-050117	Water	05/01/17 09:35	05/03/17 09:30
92339162005	MW-38R-050117	Water	05/01/17 09:50	05/03/17 09:30
92339162006	MW-39-050117	Water	05/01/17 10:10	05/03/17 09:30
92339162007	MW-42-050117	Water	05/01/17 10:30	05/03/17 09:30
92339162008	MW-18-050117	Water	05/01/17 10:45	05/03/17 09:30
92339162009	MW-40D-050117	Water	05/01/17 11:05	05/03/17 09:30
92339162010	MW-5R-050117	Water	05/01/17 11:20	05/03/17 09:30
92339162011	RW-1S-050117	Water	05/01/17 13:25	05/03/17 09:30
92339162012	RW-2S-050117	Water	05/01/17 13:40	05/03/17 09:30
92339162013	RW-3S-050117	Water	05/01/17 14:00	05/03/17 09:30
92339162014	MW-44-050117	Water	05/01/17 14:20	05/03/17 09:30
92339162015	MW-21D-050117	Water	05/01/17 14:35	05/03/17 09:30
92339162016	RW-1D-050117	Water	05/01/17 14:50	05/03/17 09:30
92339162017	MW-41D-050117	Water	05/01/17 15:05	05/03/17 09:30
92339162018	RW-2D-050117	Water	05/01/17 15:30	05/03/17 09:30
92339162019	MW-1D-050117	Water	05/01/17 15:40	05/03/17 09:30
92339162020	MW-22-050217	Water	05/02/17 07:45	05/03/17 11:26
92339162021	MW-20-050217	Water	05/02/17 08:05	05/03/17 11:26
92339162022	MW-04-050217	Water	05/02/17 08:15	05/03/17 11:26
92339162023	MW-09-050217	Water	05/02/17 08:30	05/03/17 11:26
92339162024	MW-16D-050217	Water	05/02/17 08:50	05/03/17 11:26
92339162025	MW-100-050217	Water	05/02/17 08:00	05/03/17 11:26
92339162026	MW-16-050217	Water	05/02/17 09:10	05/03/17 11:26
92339162027	MW-200-050217	Water	05/02/17 09:00	05/03/17 11:26
92339162028	TRIP BLANK	Water	05/01/17 00:00	05/03/17 11:26

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92339162001	MW-23D-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162002	MW-27D-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162003	MW-03-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162004	MW-43-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162005	MW-38R-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162006	MW-39-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162007	MW-42-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162008	MW-18-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162009	MW-40D-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162010	MW-5R-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162011	RW-1S-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162012	RW-2S-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162013	RW-3S-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162014	MW-44-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162015	MW-21D-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162016	RW-1D-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162017	MW-41D-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162018	RW-2D-050117	EPA 8260 EPA 8260B Mod.	ZDO DLK	63 3	PASI-C
92339162019	MW-1D-050117	EPA 8260	ZDO	63	PASI-C

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SAMPLE ANALYTE COUNT

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92339162020	MW-22-050217	EPA 8260B Mod.	DLK	3	PASI-C
		EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162021	MW-20-050217	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162022	MW-04-050217	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162023	MW-09-050217	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162024	MW-16D-050217	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162025	MW-100-050217	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162026	MW-16-050217	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162027	MW-200-050217	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92339162028	TRIP BLANK	EPA 8260	ZDO	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-23D-050117	Lab ID: 92339162001	Collected: 05/01/17 08:35	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	2		05/08/17 18:27	67-64-1	
Benzene	ND	ug/L	2.0	2		05/08/17 18:27	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/08/17 18:27	108-86-1	
Bromoform	ND	ug/L	2.0	2		05/08/17 18:27	74-97-5	
Bromochloromethane	ND	ug/L	2.0	2		05/08/17 18:27	75-27-4	
Bromodichloromethane	ND	ug/L	2.0	2		05/08/17 18:27	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/08/17 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		05/08/17 18:27	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/08/17 18:27	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/08/17 18:27	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/08/17 18:27	75-00-3	
Chloroform	ND	ug/L	2.0	2		05/08/17 18:27	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/08/17 18:27	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 18:27	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 18:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/08/17 18:27	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/08/17 18:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/08/17 18:27	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/08/17 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/08/17 18:27	75-71-8	
1,1-Dichloroethane	39.1	ug/L	2.0	2		05/08/17 18:27	75-34-3	
1,2-Dichloroethane	2.4	ug/L	2.0	2		05/08/17 18:27	107-06-2	
1,1-Dichloroethene	208	ug/L	2.0	2		05/08/17 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 18:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/08/17 18:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 18:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/08/17 18:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 18:27	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/08/17 18:27	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/08/17 18:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		05/08/17 18:27	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/08/17 18:27	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/08/17 18:27	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		05/08/17 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/08/17 18:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/08/17 18:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/08/17 18:27	91-20-3	
Styrene	ND	ug/L	2.0	2		05/08/17 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 18:27	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		05/08/17 18:27	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-23D-050117	Lab ID: 92339162001	Collected: 05/01/17 08:35	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2.0	2		05/08/17 18:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:27	120-82-1	
1,1,1-Trichloroethane	19.9	ug/L	2.0	2		05/08/17 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/08/17 18:27	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		05/08/17 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/08/17 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/08/17 18:27	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/08/17 18:27	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/08/17 18:27	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/08/17 18:27	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/08/17 18:27	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/08/17 18:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	2		05/08/17 18:27	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	2		05/08/17 18:27	17060-07-0	
Toluene-d8 (S)	109	%	70-130	2		05/08/17 18:27	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	177	ug/L	5.0	2.5		05/04/17 15:05	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	2.5		05/04/17 15:05	17060-07-0	
Toluene-d8 (S)	104	%	50-150	2.5		05/04/17 15:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-27D-050117	Lab ID: 92339162002	Collected: 05/01/17 09:00	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/05/17 00:46	67-64-1	M1
Benzene	ND	ug/L	1.0	1		05/05/17 00:46	71-43-2	M1
Bromobenzene	ND	ug/L	1.0	1		05/05/17 00:46	108-86-1	M1
Bromoform	ND	ug/L	1.0	1		05/05/17 00:46	74-97-5	M1
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 00:46	75-27-4	M1
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 00:46	75-25-2	M1
Bromomethane	ND	ug/L	2.0	1		05/05/17 00:46	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 00:46	78-93-3	M1
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 00:46	56-23-5	M1
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 00:46	108-90-7	M1
Chloroethane	ND	ug/L	1.0	1		05/05/17 00:46	75-00-3	M1
Chloroform	ND	ug/L	1.0	1		05/05/17 00:46	67-66-3	M1
Chloromethane	ND	ug/L	1.0	1		05/05/17 00:46	74-87-3	M1
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 00:46	95-49-8	M1
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 00:46	106-43-4	M1
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 00:46	96-12-8	M1
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 00:46	124-48-1	M1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 00:46	106-93-4	M1
Dibromomethane	ND	ug/L	1.0	1		05/05/17 00:46	74-95-3	M1
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 00:46	95-50-1	M1
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 00:46	541-73-1	M1
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 00:46	106-46-7	M1
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 00:46	75-71-8	M1
1,1-Dichloroethane	ND	ug/L	1.0	1		05/05/17 00:46	75-34-3	M1
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 00:46	107-06-2	M1
1,1-Dichloroethene	ND	ug/L	1.0	1		05/05/17 00:46	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 00:46	156-59-2	M1
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 00:46	156-60-5	M1
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 00:46	78-87-5	M1
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 00:46	142-28-9	M1
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 00:46	594-20-7	M1
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 00:46	563-58-6	M1
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 00:46	10061-01-5	M1
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 00:46	10061-02-6	M1
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 00:46	108-20-3	M1
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 00:46	100-41-4	M1
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 00:46	87-68-3	M1
2-Hexanone	ND	ug/L	5.0	1		05/05/17 00:46	591-78-6	M1
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 00:46	99-87-6	M1
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 00:46	75-09-2	M1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 00:46	108-10-1	M1
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 00:46	1634-04-4	M1
Naphthalene	ND	ug/L	1.0	1		05/05/17 00:46	91-20-3	M1
Styrene	ND	ug/L	1.0	1		05/05/17 00:46	100-42-5	M1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 00:46	630-20-6	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 00:46	79-34-5	M1
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 00:46	127-18-4	M1

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-27D-050117	Lab ID: 92339162002	Collected: 05/01/17 09:00	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 00:46	108-88-3	M1
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 00:46	87-61-6	M1
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 00:46	120-82-1	M1
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/05/17 00:46	71-55-6	M1
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 00:46	79-00-5	M1
Trichloroethene	ND	ug/L	1.0	1		05/05/17 00:46	79-01-6	M1
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 00:46	75-69-4	M1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 00:46	96-18-4	M1
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 00:46	108-05-4	M1
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 00:46	75-01-4	M1
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 00:46	1330-20-7	MS
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 00:46	179601-23-1	M1
o-Xylene	ND	ug/L	1.0	1		05/05/17 00:46	95-47-6	M1
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/05/17 00:46	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		05/05/17 00:46	17060-07-0	
Toluene-d8 (S)	110	%	70-130	1		05/05/17 00:46	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	3.6	ug/L	2.0	1		05/04/17 15:24	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		05/04/17 15:24	17060-07-0	
Toluene-d8 (S)	102	%	50-150	1		05/04/17 15:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-03-050117	Lab ID: 92339162003	Collected: 05/01/17 09:20	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/05/17 01:02	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 01:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 01:02	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 01:02	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 01:02	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 01:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 01:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 01:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 01:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 01:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 01:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 01:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 01:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 01:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 01:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 01:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 01:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 01:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/05/17 01:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 01:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:02	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 01:02	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 01:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 01:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 01:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 01:02	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 01:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 01:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 01:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 01:02	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 01:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 01:02	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-03-050117	Lab ID: 92339162003	Collected: 05/01/17 09:20	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 01:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 01:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 01:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 01:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 01:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 01:02	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 01:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 01:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 01:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/05/17 01:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		05/05/17 01:02	17060-07-0	
Toluene-d8 (S)	112	%	70-130	1		05/05/17 01:02	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/04/17 15:44	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		05/04/17 15:44	17060-07-0	
Toluene-d8 (S)	102	%	50-150	1		05/04/17 15:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-43-050117	Lab ID: 92339162004	Collected: 05/01/17 09:35	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	2		05/08/17 18:44	67-64-1	
Benzene	ND	ug/L	2.0	2		05/08/17 18:44	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/08/17 18:44	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/08/17 18:44	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/08/17 18:44	75-27-4	
Bromoform	ND	ug/L	2.0	2		05/08/17 18:44	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/08/17 18:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		05/08/17 18:44	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/08/17 18:44	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/08/17 18:44	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/08/17 18:44	75-00-3	
Chloroform	ND	ug/L	2.0	2		05/08/17 18:44	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/08/17 18:44	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 18:44	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 18:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/08/17 18:44	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/08/17 18:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/08/17 18:44	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/08/17 18:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/08/17 18:44	75-71-8	
1,1-Dichloroethane	21.3	ug/L	2.0	2		05/08/17 18:44	75-34-3	
1,2-Dichloroethane	2.1	ug/L	2.0	2		05/08/17 18:44	107-06-2	
1,1-Dichloroethene	177	ug/L	2.0	2		05/08/17 18:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 18:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 18:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 18:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/08/17 18:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 18:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/08/17 18:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 18:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 18:44	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/08/17 18:44	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/08/17 18:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		05/08/17 18:44	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/08/17 18:44	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/08/17 18:44	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		05/08/17 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/08/17 18:44	108-10-1	
Methyl-tert-butyl ether	6.3	ug/L	2.0	2		05/08/17 18:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/08/17 18:44	91-20-3	
Styrene	ND	ug/L	2.0	2		05/08/17 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 18:44	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		05/08/17 18:44	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-43-050117	Lab ID: 92339162004	Collected: 05/01/17 09:35	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2.0	2		05/08/17 18:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 18:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		05/08/17 18:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/08/17 18:44	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		05/08/17 18:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/08/17 18:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/08/17 18:44	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/08/17 18:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/08/17 18:44	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/08/17 18:44	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/08/17 18:44	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/08/17 18:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	2		05/08/17 18:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	2		05/08/17 18:44	17060-07-0	
Toluene-d8 (S)	110	%	70-130	2		05/08/17 18:44	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	206	ug/L	10.0	5		05/04/17 16:40	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	50-150	5		05/04/17 16:40	17060-07-0	
Toluene-d8 (S)	102	%	50-150	5		05/04/17 16:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-38R-050117	Lab ID: 92339162005	Collected: 05/01/17 09:50	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/05/17 01:18	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 01:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 01:18	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 01:18	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 01:18	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 01:18	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 01:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 01:18	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 01:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 01:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 01:18	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 01:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 01:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 01:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 01:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 01:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 01:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 01:18	75-71-8	
1,1-Dichloroethane	6.0	ug/L	1.0	1		05/05/17 01:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 01:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:18	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 01:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 01:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 01:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 01:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 01:18	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 01:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 01:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 01:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 01:18	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 01:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 01:18	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-38R-050117	Lab ID: 92339162005	Collected: 05/01/17 09:50	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 01:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 01:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 01:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 01:18	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 01:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 01:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 01:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 01:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 01:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/05/17 01:18	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		05/05/17 01:18	17060-07-0	
Toluene-d8 (S)	110	%	70-130	1		05/05/17 01:18	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	42.6	ug/L	2.0	1		05/04/17 16:59	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		05/04/17 16:59	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		05/04/17 16:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-39-050117	Lab ID: 92339162006	Collected: 05/01/17 10:10	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/05/17 01:34	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 01:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 01:34	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 01:34	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 01:34	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 01:34	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 01:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 01:34	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 01:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 01:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 01:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 01:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 01:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 01:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 01:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 01:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 01:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 01:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/05/17 01:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 01:34	107-06-2	
1,1-Dichloroethene	1.1	ug/L	1.0	1		05/05/17 01:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:34	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 01:34	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 01:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 01:34	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 01:34	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 01:34	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 01:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 01:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 01:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 01:34	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 01:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 01:34	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-39-050117	Lab ID: 92339162006	Collected: 05/01/17 10:10	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 01:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 01:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 01:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 01:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 01:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 01:34	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 01:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 01:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 01:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		05/05/17 01:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		05/05/17 01:34	17060-07-0	
Toluene-d8 (S)	110	%	70-130	1		05/05/17 01:34	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	3.0	ug/L	2.0	1		05/04/17 17:18	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	1		05/04/17 17:18	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		05/04/17 17:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-42-050117	Lab ID: 92339162007	Collected: 05/01/17 10:30	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/07/17 06:46	67-64-1	
Benzene	ND	ug/L	1.0	1		05/07/17 06:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/07/17 06:46	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/07/17 06:46	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/07/17 06:46	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/07/17 06:46	124-48-1	
Bromomethane	ND	ug/L	2.0	1		05/07/17 06:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/07/17 06:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/07/17 06:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/07/17 06:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/07/17 06:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/07/17 06:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/07/17 06:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/07/17 06:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/07/17 06:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/07/17 06:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/07/17 06:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/07/17 06:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/07/17 06:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/07/17 06:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/07/17 06:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/07/17 06:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/07/17 06:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/07/17 06:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/07/17 06:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/07/17 06:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/07/17 06:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/07/17 06:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/07/17 06:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/07/17 06:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/07/17 06:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/07/17 06:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/07/17 06:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/07/17 06:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/07/17 06:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/07/17 06:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/07/17 06:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/07/17 06:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/07/17 06:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/07/17 06:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/07/17 06:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/07/17 06:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/07/17 06:46	91-20-3	
Styrene	ND	ug/L	1.0	1		05/07/17 06:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/07/17 06:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/07/17 06:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/07/17 06:46	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-42-050117	Lab ID: 92339162007	Collected: 05/01/17 10:30	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/07/17 06:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/07/17 06:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/07/17 06:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/07/17 06:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/07/17 06:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/07/17 06:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/07/17 06:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/07/17 06:46	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/07/17 06:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/07/17 06:46	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/07/17 06:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/07/17 06:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/07/17 06:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		05/07/17 06:46	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		05/07/17 06:46	17060-07-0	
Toluene-d8 (S)	107	%	70-130	1		05/07/17 06:46	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	8.0	ug/L	2.0	1		05/04/17 17:37	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	1		05/04/17 17:37	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		05/04/17 17:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-18-050117	Lab ID: 92339162008	Collected: 05/01/17 10:45	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/05/17 01:50	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 01:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 01:50	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 01:50	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 01:50	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 01:50	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 01:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 01:50	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 01:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 01:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 01:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 01:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 01:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 01:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 01:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 01:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 01:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 01:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 01:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/05/17 01:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 01:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 01:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 01:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 01:50	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 01:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 01:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 01:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 01:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 01:50	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 01:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 01:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 01:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 01:50	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 01:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 01:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 01:50	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-18-050117	Lab ID: 92339162008	Collected: 05/01/17 10:45	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 01:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 01:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 01:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 01:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 01:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 01:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 01:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 01:50	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 01:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 01:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 01:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		05/05/17 01:50	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/05/17 01:50	17060-07-0	
Toluene-d8 (S)	107	%	70-130	1		05/05/17 01:50	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/04/17 17:56	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	1		05/04/17 17:56	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		05/04/17 17:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-40D-050117	Lab ID: 92339162009	Collected: 05/01/17 11:05	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/05/17 02:06	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 02:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 02:06	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 02:06	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 02:06	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 02:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 02:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 02:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 02:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 02:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 02:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 02:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 02:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 02:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 02:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 02:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 02:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 02:06	75-71-8	
1,1-Dichloroethane	3.1	ug/L	1.0	1		05/05/17 02:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 02:06	107-06-2	
1,1-Dichloroethene	17.4	ug/L	1.0	1		05/05/17 02:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 02:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 02:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 02:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 02:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 02:06	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 02:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 02:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 02:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 02:06	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 02:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 02:06	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-40D-050117	Lab ID: 92339162009	Collected: 05/01/17 11:05	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 02:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/05/17 02:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 02:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 02:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 02:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 02:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 02:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 02:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 02:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 02:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 02:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		05/05/17 02:06	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		05/05/17 02:06	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		05/05/17 02:06	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	8.5	ug/L	2.0	1		05/04/17 18:15	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		05/04/17 18:15	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		05/04/17 18:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-5R-050117	Lab ID: 92339162010	Collected: 05/01/17 11:20	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/05/17 02:22	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 02:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 02:22	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 02:22	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 02:22	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 02:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 02:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 02:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 02:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 02:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 02:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 02:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 02:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 02:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 02:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 02:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 02:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 02:22	75-71-8	
1,1-Dichloroethane	1.4	ug/L	1.0	1		05/05/17 02:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 02:22	107-06-2	
1,1-Dichloroethene	1.4	ug/L	1.0	1		05/05/17 02:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:22	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 02:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 02:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 02:22	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 02:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 02:22	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 02:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 02:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 02:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 02:22	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 02:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 02:22	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-5R-050117	Lab ID: 92339162010	Collected: 05/01/17 11:20	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 02:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:22	120-82-1	
1,1,1-Trichloroethane	2.7	ug/L	1.0	1		05/05/17 02:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 02:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 02:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 02:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 02:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 02:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 02:22	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 02:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 02:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 02:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		05/05/17 02:22	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/05/17 02:22	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		05/05/17 02:22	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	78.2	ug/L	2.0	1		05/04/17 18:34	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		05/04/17 18:34	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		05/04/17 18:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-1S-050117	Lab ID: 92339162011	Collected: 05/01/17 13:25	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		05/05/17 20:45	67-64-1	
Benzene	ND	ug/L	10.0	10		05/05/17 20:45	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/05/17 20:45	108-86-1	
Bromoform	ND	ug/L	10.0	10		05/05/17 20:45	74-97-5	
Bromochloromethane	ND	ug/L	10.0	10		05/05/17 20:45	75-27-4	
Bromodichloromethane	ND	ug/L	10.0	10		05/05/17 20:45	L1	
Bromomethane	ND	ug/L	20.0	10		05/05/17 20:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		05/05/17 20:45	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		05/05/17 20:45	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/05/17 20:45	108-90-7	
Chloroethane	25.5	ug/L	10.0	10		05/05/17 20:45	75-00-3	
Chloroform	ND	ug/L	10.0	10		05/05/17 20:45	67-66-3	
Chloromethane	ND	ug/L	10.0	10		05/05/17 20:45	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/05/17 20:45	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		05/05/17 20:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		05/05/17 20:45	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		05/05/17 20:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/05/17 20:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		05/05/17 20:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/05/17 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/05/17 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/05/17 20:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/05/17 20:45	75-71-8	
1,1-Dichloroethane	711	ug/L	10.0	10		05/05/17 20:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/05/17 20:45	107-06-2	
1,1-Dichloroethene	1210	ug/L	10.0	10		05/05/17 20:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		05/05/17 20:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/05/17 20:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		05/05/17 20:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		05/05/17 20:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		05/05/17 20:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		05/05/17 20:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		05/05/17 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		05/05/17 20:45	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		05/05/17 20:45	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		05/05/17 20:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		05/05/17 20:45	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		05/05/17 20:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		05/05/17 20:45	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		05/05/17 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		05/05/17 20:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/05/17 20:45	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		05/05/17 20:45	91-20-3	
Styrene	ND	ug/L	10.0	10		05/05/17 20:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		05/05/17 20:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/05/17 20:45	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		05/05/17 20:45	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-1S-050117	Lab ID: 92339162011	Collected: 05/01/17 13:25	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		05/05/17 20:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/05/17 20:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/05/17 20:45	120-82-1	
1,1,1-Trichloroethane	35.5	ug/L	10.0	10		05/05/17 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/05/17 20:45	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		05/05/17 20:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/05/17 20:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		05/05/17 20:45	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		05/05/17 20:45	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		05/05/17 20:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	10		05/05/17 20:45	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		05/05/17 20:45	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		05/05/17 20:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	10		05/05/17 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	10		05/05/17 20:45	17060-07-0	
Toluene-d8 (S)	105	%	70-130	10		05/05/17 20:45	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	1370	ug/L	50.0	25		05/04/17 18:53	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	25		05/04/17 18:53	17060-07-0	
Toluene-d8 (S)	104	%	50-150	25		05/04/17 18:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-2S-050117	Lab ID: 92339162012	Collected: 05/01/17 13:40	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	125	5		05/05/17 19:54	67-64-1	
Benzene	ND	ug/L	5.0	5		05/05/17 19:54	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		05/05/17 19:54	108-86-1	
Bromoform	ND	ug/L	5.0	5		05/05/17 19:54	74-97-5	
Bromochloromethane	ND	ug/L	5.0	5		05/05/17 19:54	75-27-4	
Bromodichloromethane	ND	ug/L	5.0	5		05/05/17 19:54	75-25-2	
Bromomethane	ND	ug/L	10.0	5		05/05/17 19:54	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	25.0	5		05/05/17 19:54	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		05/05/17 19:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		05/05/17 19:54	108-90-7	
Chloroethane	ND	ug/L	5.0	5		05/05/17 19:54	75-00-3	
Chloroform	ND	ug/L	5.0	5		05/05/17 19:54	67-66-3	
Chloromethane	ND	ug/L	5.0	5		05/05/17 19:54	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		05/05/17 19:54	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		05/05/17 19:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		05/05/17 19:54	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		05/05/17 19:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		05/05/17 19:54	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		05/05/17 19:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		05/05/17 19:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		05/05/17 19:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		05/05/17 19:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		05/05/17 19:54	75-71-8	
1,1-Dichloroethane	95.7	ug/L	5.0	5		05/05/17 19:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		05/05/17 19:54	107-06-2	
1,1-Dichloroethene	622	ug/L	5.0	5		05/05/17 19:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		05/05/17 19:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		05/05/17 19:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		05/05/17 19:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		05/05/17 19:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		05/05/17 19:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		05/05/17 19:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		05/05/17 19:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		05/05/17 19:54	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		05/05/17 19:54	108-20-3	
Ethylbenzene	ND	ug/L	5.0	5		05/05/17 19:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		05/05/17 19:54	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		05/05/17 19:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		05/05/17 19:54	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		05/05/17 19:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		05/05/17 19:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		05/05/17 19:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	5		05/05/17 19:54	91-20-3	
Styrene	ND	ug/L	5.0	5		05/05/17 19:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		05/05/17 19:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		05/05/17 19:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	5		05/05/17 19:54	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-2S-050117	Lab ID: 92339162012	Collected: 05/01/17 13:40	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	5.0	5		05/05/17 19:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		05/05/17 19:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		05/05/17 19:54	120-82-1	
1,1,1-Trichloroethane	426	ug/L	5.0	5		05/05/17 19:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		05/05/17 19:54	79-00-5	
Trichloroethene	5.3	ug/L	5.0	5		05/05/17 19:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		05/05/17 19:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		05/05/17 19:54	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		05/05/17 19:54	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		05/05/17 19:54	75-01-4	
Xylene (Total)	ND	ug/L	5.0	5		05/05/17 19:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		05/05/17 19:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		05/05/17 19:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	5		05/05/17 19:54	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	5		05/05/17 19:54	17060-07-0	
Toluene-d8 (S)	108	%	70-130	5		05/05/17 19:54	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	949	ug/L	20.0	10		05/04/17 19:12	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	10		05/04/17 19:12	17060-07-0	
Toluene-d8 (S)	104	%	50-150	10		05/04/17 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-3S-050117	Lab ID: 92339162013	Collected: 05/01/17 14:00	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/05/17 02:38	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 02:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 02:38	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 02:38	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 02:38	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 02:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 02:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 02:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 02:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 02:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 02:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 02:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 02:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 02:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 02:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 02:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 02:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 02:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/05/17 02:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 02:38	107-06-2	
1,1-Dichloroethene	1.2	ug/L	1.0	1		05/05/17 02:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 02:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 02:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 02:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 02:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 02:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 02:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 02:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 02:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 02:38	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 02:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 02:38	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-3S-050117	Lab ID: 92339162013	Collected: 05/01/17 14:00	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 02:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/05/17 02:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 02:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 02:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 02:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 02:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 02:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 02:38	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 02:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 02:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 02:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		05/05/17 02:38	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		05/05/17 02:38	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		05/05/17 02:38	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	3.8	ug/L	2.0	1		05/04/17 19:31	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		05/04/17 19:31	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		05/04/17 19:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-44-050117	Lab ID: 92339162014	Collected: 05/01/17 14:20	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/05/17 02:54	67-64-1	
Benzene	ND	ug/L	1.0	1		05/05/17 02:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/05/17 02:54	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/05/17 02:54	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/05/17 02:54	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/05/17 02:54	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/05/17 02:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/05/17 02:54	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/05/17 02:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/05/17 02:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/05/17 02:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/05/17 02:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/05/17 02:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/05/17 02:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/05/17 02:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/05/17 02:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/05/17 02:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/05/17 02:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/05/17 02:54	75-71-8	
1,1-Dichloroethane	6.6	ug/L	1.0	1		05/05/17 02:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/05/17 02:54	107-06-2	
1,1-Dichloroethene	5.9	ug/L	1.0	1		05/05/17 02:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/05/17 02:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/05/17 02:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/05/17 02:54	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/05/17 02:54	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/05/17 02:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/05/17 02:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/05/17 02:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/05/17 02:54	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/05/17 02:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/05/17 02:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/05/17 02:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/05/17 02:54	91-20-3	
Styrene	ND	ug/L	1.0	1		05/05/17 02:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/05/17 02:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/05/17 02:54	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-44-050117	Lab ID: 92339162014	Collected: 05/01/17 14:20	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/05/17 02:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/05/17 02:54	120-82-1	
1,1,1-Trichloroethane	27.7	ug/L	1.0	1		05/05/17 02:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/05/17 02:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/05/17 02:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/05/17 02:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/05/17 02:54	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/05/17 02:54	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/05/17 02:54	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/05/17 02:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/05/17 02:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/05/17 02:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		05/05/17 02:54	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		05/05/17 02:54	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		05/05/17 02:54	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	49.1	ug/L	2.0	1		05/04/17 19:50	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	50-150	1		05/04/17 19:50	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		05/04/17 19:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-21D-050117	Lab ID: 92339162015	Collected: 05/01/17 14:35	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/09/17 13:56	67-64-1	
Benzene	ND	ug/L	1.0	1		05/09/17 13:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/09/17 13:56	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/09/17 13:56	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/09/17 13:56	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/09/17 13:56	124-48-1	
Bromomethane	ND	ug/L	2.0	1		05/09/17 13:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/09/17 13:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/09/17 13:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/09/17 13:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/09/17 13:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/09/17 13:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/09/17 13:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/09/17 13:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/09/17 13:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/09/17 13:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/09/17 13:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/09/17 13:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/09/17 13:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/09/17 13:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/09/17 13:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/09/17 13:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/09/17 13:56	75-71-8	
1,1-Dichloroethane	6.9	ug/L	1.0	1		05/09/17 13:56	75-34-3	
1,2-Dichloroethane	1.4	ug/L	1.0	1		05/09/17 13:56	107-06-2	
1,1-Dichloroethene	111	ug/L	1.0	1		05/09/17 13:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/09/17 13:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/09/17 13:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/09/17 13:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/09/17 13:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/09/17 13:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/09/17 13:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/09/17 13:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/09/17 13:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/09/17 13:56	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/09/17 13:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/09/17 13:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/09/17 13:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/09/17 13:56	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/09/17 13:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/09/17 13:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/09/17 13:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/09/17 13:56	91-20-3	
Styrene	ND	ug/L	1.0	1		05/09/17 13:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/09/17 13:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/09/17 13:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/09/17 13:56	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-21D-050117	Lab ID: 92339162015	Collected: 05/01/17 14:35	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/09/17 13:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/09/17 13:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/09/17 13:56	120-82-1	
1,1,1-Trichloroethane	2.3	ug/L	1.0	1		05/09/17 13:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/09/17 13:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/09/17 13:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/09/17 13:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/09/17 13:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/09/17 13:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/09/17 13:56	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/09/17 13:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/09/17 13:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/09/17 13:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		05/09/17 13:56	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		05/09/17 13:56	17060-07-0	
Toluene-d8 (S)	111	%	70-130	1		05/09/17 13:56	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	57.5	ug/L	2.0	1		05/04/17 20:09	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	1		05/04/17 20:09	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		05/04/17 20:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-1D-050117	Lab ID: 92339162016	Collected: 05/01/17 14:50	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/08/17 17:01	67-64-1	M1
Benzene	ND	ug/L	1.0	1		05/08/17 17:01	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/08/17 17:01	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/08/17 17:01	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/08/17 17:01	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/08/17 17:01	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/08/17 17:01	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		05/08/17 17:01	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/08/17 17:01	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/08/17 17:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/08/17 17:01	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/08/17 17:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/08/17 17:01	74-87-3	M1
2-Chlorotoluene	ND	ug/L	1.0	1		05/08/17 17:01	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/08/17 17:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/08/17 17:01	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/08/17 17:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/08/17 17:01	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/08/17 17:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/08/17 17:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/08/17 17:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/08/17 17:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/08/17 17:01	75-71-8	M1
1,1-Dichloroethane	10.4	ug/L	1.0	1		05/08/17 17:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/08/17 17:01	107-06-2	
1,1-Dichloroethene	88.9	ug/L	1.0	1		05/08/17 17:01	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/08/17 17:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/08/17 17:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/08/17 17:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/08/17 17:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/08/17 17:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/08/17 17:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/08/17 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/08/17 17:01	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/08/17 17:01	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/08/17 17:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/08/17 17:01	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/08/17 17:01	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/08/17 17:01	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/08/17 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/08/17 17:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/08/17 17:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/08/17 17:01	91-20-3	
Styrene	ND	ug/L	1.0	1		05/08/17 17:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/08/17 17:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/08/17 17:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/08/17 17:01	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-1D-050117	Lab ID: 92339162016	Collected: 05/01/17 14:50	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/08/17 17:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/08/17 17:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/08/17 17:01	120-82-1	
1,1,1-Trichloroethane	1.0	ug/L	1.0	1		05/08/17 17:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/08/17 17:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/08/17 17:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/08/17 17:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/08/17 17:01	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/08/17 17:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/08/17 17:01	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/08/17 17:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/08/17 17:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/08/17 17:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		05/08/17 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		05/08/17 17:01	17060-07-0	
Toluene-d8 (S)	111	%	70-130	1		05/08/17 17:01	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	51.9	ug/L	2.0	1		05/04/17 20:28	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		05/04/17 20:28	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		05/04/17 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-41D-050117	Lab ID: 92339162017	Collected: 05/01/17 15:05	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/06/17 05:59	67-64-1	
Benzene	ND	ug/L	1.0	1		05/06/17 05:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/06/17 05:59	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/06/17 05:59	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/06/17 05:59	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/06/17 05:59	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/06/17 05:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/06/17 05:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/06/17 05:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/06/17 05:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/06/17 05:59	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/06/17 05:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/06/17 05:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 05:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 05:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/06/17 05:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/06/17 05:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/06/17 05:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/06/17 05:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 05:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 05:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 05:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/06/17 05:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/06/17 05:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/06/17 05:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/06/17 05:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 05:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 05:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 05:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/06/17 05:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 05:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/06/17 05:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 05:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 05:59	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/06/17 05:59	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/06/17 05:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/06/17 05:59	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/06/17 05:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/06/17 05:59	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/06/17 05:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/06/17 05:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/06/17 05:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/06/17 05:59	91-20-3	
Styrene	ND	ug/L	1.0	1		05/06/17 05:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 05:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 05:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/06/17 05:59	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-41D-050117	Lab ID: 92339162017	Collected: 05/01/17 15:05	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/06/17 05:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 05:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 05:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/06/17 05:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/06/17 05:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/06/17 05:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/06/17 05:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/06/17 05:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/06/17 05:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/06/17 05:59	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/06/17 05:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/06/17 05:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/06/17 05:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/06/17 05:59	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		05/06/17 05:59	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		05/06/17 05:59	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	2.4	ug/L	2.0	1		05/04/17 20:47	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		05/04/17 20:47	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		05/04/17 20:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-2D-050117	Lab ID: 92339162018	Collected: 05/01/17 15:30	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	4		05/08/17 19:19	67-64-1	
Benzene	ND	ug/L	4.0	4		05/08/17 19:19	71-43-2	
Bromobenzene	ND	ug/L	4.0	4		05/08/17 19:19	108-86-1	
Bromoform	ND	ug/L	4.0	4		05/08/17 19:19	74-97-5	
Bromochloromethane	ND	ug/L	4.0	4		05/08/17 19:19	75-27-4	
Bromodichloromethane	ND	ug/L	4.0	4		05/08/17 19:19	75-25-2	
Bromomethane	ND	ug/L	8.0	4		05/08/17 19:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	4		05/08/17 19:19	78-93-3	
Carbon tetrachloride	ND	ug/L	4.0	4		05/08/17 19:19	56-23-5	
Chlorobenzene	ND	ug/L	4.0	4		05/08/17 19:19	108-90-7	
Chloroethane	ND	ug/L	4.0	4		05/08/17 19:19	75-00-3	
Chloroform	ND	ug/L	4.0	4		05/08/17 19:19	67-66-3	
Chloromethane	ND	ug/L	4.0	4		05/08/17 19:19	74-87-3	
2-Chlorotoluene	ND	ug/L	4.0	4		05/08/17 19:19	95-49-8	
4-Chlorotoluene	ND	ug/L	4.0	4		05/08/17 19:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	4		05/08/17 19:19	96-12-8	
Dibromochloromethane	ND	ug/L	4.0	4		05/08/17 19:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	4.0	4		05/08/17 19:19	106-93-4	
Dibromomethane	ND	ug/L	4.0	4		05/08/17 19:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	4		05/08/17 19:19	75-71-8	
1,1-Dichloroethane	56.6	ug/L	4.0	4		05/08/17 19:19	75-34-3	
1,2-Dichloroethane	4.5	ug/L	4.0	4		05/08/17 19:19	107-06-2	
1,1-Dichloroethene	486	ug/L	4.0	4		05/08/17 19:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	4.0	4		05/08/17 19:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	4		05/08/17 19:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	4.0	4		05/08/17 19:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	4.0	4		05/08/17 19:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	4		05/08/17 19:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	4.0	4		05/08/17 19:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	4		05/08/17 19:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	4		05/08/17 19:19	10061-02-6	
Diisopropyl ether	ND	ug/L	4.0	4		05/08/17 19:19	108-20-3	
Ethylbenzene	ND	ug/L	4.0	4		05/08/17 19:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	4		05/08/17 19:19	87-68-3	
2-Hexanone	ND	ug/L	20.0	4		05/08/17 19:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	4.0	4		05/08/17 19:19	99-87-6	
Methylene Chloride	ND	ug/L	8.0	4		05/08/17 19:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	4		05/08/17 19:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	4		05/08/17 19:19	1634-04-4	
Naphthalene	ND	ug/L	4.0	4		05/08/17 19:19	91-20-3	
Styrene	ND	ug/L	4.0	4		05/08/17 19:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	4		05/08/17 19:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	4.0	4		05/08/17 19:19	79-34-5	
Tetrachloroethene	ND	ug/L	4.0	4		05/08/17 19:19	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: RW-2D-050117	Lab ID: 92339162018	Collected: 05/01/17 15:30	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	4.0	4		05/08/17 19:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:19	120-82-1	
1,1,1-Trichloroethane	14.7	ug/L	4.0	4		05/08/17 19:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	4		05/08/17 19:19	79-00-5	
Trichloroethene	ND	ug/L	4.0	4		05/08/17 19:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		05/08/17 19:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	4		05/08/17 19:19	96-18-4	
Vinyl acetate	ND	ug/L	8.0	4		05/08/17 19:19	108-05-4	
Vinyl chloride	ND	ug/L	4.0	4		05/08/17 19:19	75-01-4	
Xylene (Total)	ND	ug/L	4.0	4		05/08/17 19:19	1330-20-7	
m&p-Xylene	ND	ug/L	8.0	4		05/08/17 19:19	179601-23-1	
o-Xylene	ND	ug/L	4.0	4		05/08/17 19:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	4		05/08/17 19:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	4		05/08/17 19:19	17060-07-0	
Toluene-d8 (S)	110	%	70-130	4		05/08/17 19:19	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	214	ug/L	5.0	2.5		05/04/17 21:06	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	50-150	2.5		05/04/17 21:06	17060-07-0	
Toluene-d8 (S)	104	%	50-150	2.5		05/04/17 21:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-1D-050117	Lab ID: 92339162019	Collected: 05/01/17 15:40	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	62.5	2.5		05/06/17 09:44	67-64-1	
Benzene	ND	ug/L	2.5	2.5		05/06/17 09:44	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		05/06/17 09:44	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	2.5		05/06/17 09:44	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		05/06/17 09:44	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		05/06/17 09:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	12.5	2.5		05/06/17 09:44	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		05/06/17 09:44	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	108-90-7	
Chloroethane	ND	ug/L	2.5	2.5		05/06/17 09:44	75-00-3	
Chloroform	ND	ug/L	2.5	2.5		05/06/17 09:44	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		05/06/17 09:44	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		05/06/17 09:44	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		05/06/17 09:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5		05/06/17 09:44	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		05/06/17 09:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		05/06/17 09:44	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		05/06/17 09:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		05/06/17 09:44	75-71-8	
1,1-Dichloroethane	105	ug/L	2.5	2.5		05/06/17 09:44	75-34-3	
1,2-Dichloroethane	5.7	ug/L	2.5	2.5		05/06/17 09:44	107-06-2	
1,1-Dichloroethene	407	ug/L	2.5	2.5		05/06/17 09:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/06/17 09:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.5	2.5		05/06/17 09:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		05/06/17 09:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.5	2.5		05/06/17 09:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		05/06/17 09:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		05/06/17 09:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/06/17 09:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		05/06/17 09:44	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		05/06/17 09:44	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.5	2.5		05/06/17 09:44	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		05/06/17 09:44	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		05/06/17 09:44	99-87-6	
Methylene Chloride	ND	ug/L	5.0	2.5		05/06/17 09:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		05/06/17 09:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		05/06/17 09:44	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		05/06/17 09:44	91-20-3	
Styrene	ND	ug/L	2.5	2.5		05/06/17 09:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/06/17 09:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		05/06/17 09:44	79-34-5	
Tetrachloroethene	ND	ug/L	2.5	2.5		05/06/17 09:44	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-1D-050117	Lab ID: 92339162019	Collected: 05/01/17 15:40	Received: 05/03/17 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2.5	2.5		05/06/17 09:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		05/06/17 09:44	120-82-1	
1,1,1-Trichloroethane	37.1	ug/L	2.5	2.5		05/06/17 09:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		05/06/17 09:44	79-00-5	
Trichloroethene	ND	ug/L	2.5	2.5		05/06/17 09:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.5	2.5		05/06/17 09:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		05/06/17 09:44	96-18-4	
Vinyl acetate	ND	ug/L	5.0	2.5		05/06/17 09:44	108-05-4	
Vinyl chloride	ND	ug/L	2.5	2.5		05/06/17 09:44	75-01-4	
Xylene (Total)	ND	ug/L	2.5	2.5		05/06/17 09:44	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	2.5		05/06/17 09:44	179601-23-1	
o-Xylene	ND	ug/L	2.5	2.5		05/06/17 09:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	2.5		05/06/17 09:44	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	2.5		05/06/17 09:44	17060-07-0	
Toluene-d8 (S)	109	%	70-130	2.5		05/06/17 09:44	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	329	ug/L	10.0	5		05/05/17 18:00	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	2.5		05/04/17 21:25	17060-07-0	
Toluene-d8 (S)	104	%	50-150	2.5		05/04/17 21:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-22-050217	Lab ID: 92339162020	Collected: 05/02/17 07:45	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	25.0	1		05/06/17 06:34	67-64-1	
Benzene	ND	ug/L	1.0	1		05/06/17 06:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/06/17 06:34	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/06/17 06:34	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/06/17 06:34	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/06/17 06:34	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/06/17 06:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/06/17 06:34	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/06/17 06:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/06/17 06:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/06/17 06:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/06/17 06:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/06/17 06:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 06:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 06:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/06/17 06:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/06/17 06:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/06/17 06:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/06/17 06:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 06:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 06:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 06:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/06/17 06:34	75-71-8	
1,1-Dichloroethane	2.5	ug/L	1.0	1		05/06/17 06:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/06/17 06:34	107-06-2	
1,1-Dichloroethene	36.9	ug/L	1.0	1		05/06/17 06:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 06:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 06:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 06:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/06/17 06:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 06:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/06/17 06:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 06:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 06:34	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/06/17 06:34	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/06/17 06:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/06/17 06:34	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/06/17 06:34	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/06/17 06:34	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/06/17 06:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/06/17 06:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/06/17 06:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/06/17 06:34	91-20-3	
Styrene	ND	ug/L	1.0	1		05/06/17 06:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 06:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 06:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/06/17 06:34	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-22-050217	Lab ID: 92339162020	Collected: 05/02/17 07:45	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/06/17 06:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 06:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 06:34	120-82-1	
1,1,1-Trichloroethane	3.7	ug/L	1.0	1		05/06/17 06:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/06/17 06:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/06/17 06:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/06/17 06:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/06/17 06:34	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/06/17 06:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/06/17 06:34	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/06/17 06:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/06/17 06:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/06/17 06:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		05/06/17 06:34	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		05/06/17 06:34	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		05/06/17 06:34	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	24.6	ug/L	2.0	1		05/05/17 17:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	50-150	1		05/05/17 17:22	17060-07-0	
Toluene-d8 (S)	111	%	50-150	1		05/05/17 17:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-20-050217	Lab ID: 92339162021	Collected: 05/02/17 08:05	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	2		05/08/17 19:36	67-64-1	
Benzene	ND	ug/L	2.0	2		05/08/17 19:36	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/08/17 19:36	108-86-1	
Bromoform	ND	ug/L	2.0	2		05/08/17 19:36	74-97-5	
Bromochloromethane	ND	ug/L	2.0	2		05/08/17 19:36	75-27-4	
Bromodichloromethane	ND	ug/L	2.0	2		05/08/17 19:36	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/08/17 19:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		05/08/17 19:36	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/08/17 19:36	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/08/17 19:36	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/08/17 19:36	75-00-3	
Chloroform	ND	ug/L	2.0	2		05/08/17 19:36	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/08/17 19:36	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 19:36	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 19:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/08/17 19:36	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/08/17 19:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/08/17 19:36	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/08/17 19:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 19:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 19:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 19:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/08/17 19:36	75-71-8	
1,1-Dichloroethane	161	ug/L	2.0	2		05/08/17 19:36	75-34-3	
1,2-Dichloroethane	7.3	ug/L	2.0	2		05/08/17 19:36	107-06-2	
1,1-Dichloroethene	286	ug/L	2.0	2		05/08/17 19:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 19:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 19:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 19:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/08/17 19:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 19:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/08/17 19:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 19:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 19:36	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/08/17 19:36	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/08/17 19:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		05/08/17 19:36	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/08/17 19:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/08/17 19:36	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		05/08/17 19:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/08/17 19:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/08/17 19:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/08/17 19:36	91-20-3	
Styrene	ND	ug/L	2.0	2		05/08/17 19:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 19:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 19:36	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		05/08/17 19:36	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Sample: MW-20-050217	Lab ID: 92339162021	Collected: 05/02/17 08:05	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2.0	2		05/08/17 19:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 19:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 19:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.0	2		05/08/17 19:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/08/17 19:36	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		05/08/17 19:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/08/17 19:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/08/17 19:36	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/08/17 19:36	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/08/17 19:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/08/17 19:36	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/08/17 19:36	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/08/17 19:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	2		05/08/17 19:36	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	2		05/08/17 19:36	17060-07-0	
Toluene-d8 (S)	112	%	70-130	2		05/08/17 19:36	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	967	ug/L	20.0	10		05/04/17 22:02	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	10		05/04/17 22:02	17060-07-0	
Toluene-d8 (S)	104	%	50-150	10		05/04/17 22:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-04-050217	Lab ID: 92339162022	Collected: 05/02/17 08:15	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	4		05/08/17 19:53	67-64-1	
Benzene	ND	ug/L	4.0	4		05/08/17 19:53	71-43-2	
Bromobenzene	ND	ug/L	4.0	4		05/08/17 19:53	108-86-1	
Bromoform	ND	ug/L	4.0	4		05/08/17 19:53	74-97-5	
Bromochloromethane	ND	ug/L	4.0	4		05/08/17 19:53	75-27-4	
Bromodichloromethane	ND	ug/L	4.0	4		05/08/17 19:53	75-25-2	
Bromomethane	ND	ug/L	8.0	4		05/08/17 19:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	4		05/08/17 19:53	78-93-3	
Carbon tetrachloride	ND	ug/L	4.0	4		05/08/17 19:53	56-23-5	
Chlorobenzene	ND	ug/L	4.0	4		05/08/17 19:53	108-90-7	
Chloroethane	ND	ug/L	4.0	4		05/08/17 19:53	75-00-3	
Chloroform	ND	ug/L	4.0	4		05/08/17 19:53	67-66-3	
Chloromethane	ND	ug/L	4.0	4		05/08/17 19:53	74-87-3	
2-Chlorotoluene	ND	ug/L	4.0	4		05/08/17 19:53	95-49-8	
4-Chlorotoluene	ND	ug/L	4.0	4		05/08/17 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	8.0	4		05/08/17 19:53	96-12-8	
Dibromochloromethane	ND	ug/L	4.0	4		05/08/17 19:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	4.0	4		05/08/17 19:53	106-93-4	
Dibromomethane	ND	ug/L	4.0	4		05/08/17 19:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	4.0	4		05/08/17 19:53	75-71-8	
1,1-Dichloroethane	103	ug/L	4.0	4		05/08/17 19:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	4.0	4		05/08/17 19:53	107-06-2	
1,1-Dichloroethene	459	ug/L	4.0	4		05/08/17 19:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	4.0	4		05/08/17 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	4.0	4		05/08/17 19:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	4.0	4		05/08/17 19:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	4.0	4		05/08/17 19:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	4		05/08/17 19:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	4.0	4		05/08/17 19:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	4		05/08/17 19:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	4		05/08/17 19:53	10061-02-6	
Diisopropyl ether	ND	ug/L	4.0	4		05/08/17 19:53	108-20-3	
Ethylbenzene	ND	ug/L	4.0	4		05/08/17 19:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	4		05/08/17 19:53	87-68-3	
2-Hexanone	ND	ug/L	20.0	4		05/08/17 19:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	4.0	4		05/08/17 19:53	99-87-6	
Methylene Chloride	ND	ug/L	8.0	4		05/08/17 19:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	20.0	4		05/08/17 19:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	4		05/08/17 19:53	1634-04-4	
Naphthalene	ND	ug/L	4.0	4		05/08/17 19:53	91-20-3	
Styrene	ND	ug/L	4.0	4		05/08/17 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	4.0	4		05/08/17 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	4.0	4		05/08/17 19:53	79-34-5	
Tetrachloroethene	ND	ug/L	4.0	4		05/08/17 19:53	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Sample: MW-04-050217	Lab ID: 92339162022	Collected: 05/02/17 08:15	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	4.0	4		05/08/17 19:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	4		05/08/17 19:53	120-82-1	
1,1,1-Trichloroethane	13.0	ug/L	4.0	4		05/08/17 19:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	4.0	4		05/08/17 19:53	79-00-5	
Trichloroethene	ND	ug/L	4.0	4		05/08/17 19:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	4.0	4		05/08/17 19:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	4		05/08/17 19:53	96-18-4	
Vinyl acetate	ND	ug/L	8.0	4		05/08/17 19:53	108-05-4	
Vinyl chloride	ND	ug/L	4.0	4		05/08/17 19:53	75-01-4	
Xylene (Total)	ND	ug/L	4.0	4		05/08/17 19:53	1330-20-7	
m&p-Xylene	ND	ug/L	8.0	4		05/08/17 19:53	179601-23-1	
o-Xylene	ND	ug/L	4.0	4		05/08/17 19:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	4		05/08/17 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	4		05/08/17 19:53	17060-07-0	
Toluene-d8 (S)	109	%	70-130	4		05/08/17 19:53	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	252	ug/L	20.0	10		05/04/17 22:21	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	10		05/04/17 22:21	17060-07-0	
Toluene-d8 (S)	106	%	50-150	10		05/04/17 22:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-09-050217	Lab ID: 92339162023	Collected: 05/02/17 08:30	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/06/17 04:32	67-64-1	
Benzene	ND	ug/L	1.0	1		05/06/17 04:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/06/17 04:32	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/06/17 04:32	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/06/17 04:32	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/06/17 04:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		05/06/17 04:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/06/17 04:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/06/17 04:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/06/17 04:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/06/17 04:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/06/17 04:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/06/17 04:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 04:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 04:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/06/17 04:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/06/17 04:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/06/17 04:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/06/17 04:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 04:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 04:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 04:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/06/17 04:32	75-71-8	
1,1-Dichloroethane	2.9	ug/L	1.0	1		05/06/17 04:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/06/17 04:32	107-06-2	
1,1-Dichloroethene	63.8	ug/L	1.0	1		05/06/17 04:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 04:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 04:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 04:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/06/17 04:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 04:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/06/17 04:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 04:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 04:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/06/17 04:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/06/17 04:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/06/17 04:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/06/17 04:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/06/17 04:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/06/17 04:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/06/17 04:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/06/17 04:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/06/17 04:32	91-20-3	
Styrene	ND	ug/L	1.0	1		05/06/17 04:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 04:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 04:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/06/17 04:32	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Sample: MW-09-050217	Lab ID: 92339162023	Collected: 05/02/17 08:30	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/06/17 04:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 04:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 04:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/06/17 04:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/06/17 04:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/06/17 04:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/06/17 04:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/06/17 04:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/06/17 04:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/06/17 04:32	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/06/17 04:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/06/17 04:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/06/17 04:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		05/06/17 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		05/06/17 04:32	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		05/06/17 04:32	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	20.8	ug/L	2.0	1		05/04/17 22:40	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	50-150	1		05/04/17 22:40	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		05/04/17 22:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-16D-050217	Lab ID: 92339162024	Collected: 05/02/17 08:50	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	2		05/08/17 20:10	67-64-1	
Benzene	ND	ug/L	2.0	2		05/08/17 20:10	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/08/17 20:10	108-86-1	
Bromochloromethane	ND	ug/L	2.0	2		05/08/17 20:10	74-97-5	
Bromodichloromethane	ND	ug/L	2.0	2		05/08/17 20:10	75-27-4	
Bromoform	ND	ug/L	2.0	2		05/08/17 20:10	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/08/17 20:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		05/08/17 20:10	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/08/17 20:10	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/08/17 20:10	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/08/17 20:10	75-00-3	
Chloroform	ND	ug/L	2.0	2		05/08/17 20:10	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/08/17 20:10	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 20:10	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 20:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/08/17 20:10	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/08/17 20:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/08/17 20:10	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/08/17 20:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/08/17 20:10	75-71-8	
1,1-Dichloroethane	43.7	ug/L	2.0	2		05/08/17 20:10	75-34-3	
1,2-Dichloroethane	2.9	ug/L	2.0	2		05/08/17 20:10	107-06-2	
1,1-Dichloroethene	235	ug/L	2.0	2		05/08/17 20:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 20:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 20:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 20:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/08/17 20:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 20:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/08/17 20:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 20:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 20:10	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/08/17 20:10	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/08/17 20:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		05/08/17 20:10	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/08/17 20:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/08/17 20:10	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		05/08/17 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/08/17 20:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/08/17 20:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/08/17 20:10	91-20-3	
Styrene	ND	ug/L	2.0	2		05/08/17 20:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 20:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 20:10	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		05/08/17 20:10	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-16D-050217	Lab ID: 92339162024	Collected: 05/02/17 08:50	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2.0	2		05/08/17 20:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:10	120-82-1	
1,1,1-Trichloroethane	16.4	ug/L	2.0	2		05/08/17 20:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/08/17 20:10	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		05/08/17 20:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/08/17 20:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/08/17 20:10	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/08/17 20:10	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/08/17 20:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/08/17 20:10	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/08/17 20:10	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/08/17 20:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	2		05/08/17 20:10	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	2		05/08/17 20:10	17060-07-0	
Toluene-d8 (S)	109	%	70-130	2		05/08/17 20:10	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	182	ug/L	5.0	2.5		05/04/17 23:37	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	50-150	2.5		05/04/17 23:37	17060-07-0	
Toluene-d8 (S)	106	%	50-150	2.5		05/04/17 23:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-100-050217	Lab ID: 92339162025	Collected: 05/02/17 08:00	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	2		05/08/17 20:28	67-64-1	
Benzene	ND	ug/L	2.0	2		05/08/17 20:28	71-43-2	
Bromobenzene	ND	ug/L	2.0	2		05/08/17 20:28	108-86-1	
Bromoform	ND	ug/L	2.0	2		05/08/17 20:28	74-97-5	
Bromochloromethane	ND	ug/L	2.0	2		05/08/17 20:28	75-27-4	
Bromodichloromethane	ND	ug/L	2.0	2		05/08/17 20:28	75-25-2	
Bromomethane	ND	ug/L	4.0	2		05/08/17 20:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	2		05/08/17 20:28	78-93-3	
Carbon tetrachloride	ND	ug/L	2.0	2		05/08/17 20:28	56-23-5	
Chlorobenzene	ND	ug/L	2.0	2		05/08/17 20:28	108-90-7	
Chloroethane	ND	ug/L	2.0	2		05/08/17 20:28	75-00-3	
Chloroform	ND	ug/L	2.0	2		05/08/17 20:28	67-66-3	
Chloromethane	ND	ug/L	2.0	2		05/08/17 20:28	74-87-3	
2-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 20:28	95-49-8	
4-Chlorotoluene	ND	ug/L	2.0	2		05/08/17 20:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	2		05/08/17 20:28	96-12-8	
Dibromochloromethane	ND	ug/L	2.0	2		05/08/17 20:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.0	2		05/08/17 20:28	106-93-4	
Dibromomethane	ND	ug/L	2.0	2		05/08/17 20:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.0	2		05/08/17 20:28	75-71-8	
1,1-Dichloroethane	46.5	ug/L	2.0	2		05/08/17 20:28	75-34-3	
1,2-Dichloroethane	2.8	ug/L	2.0	2		05/08/17 20:28	107-06-2	
1,1-Dichloroethene	246	ug/L	2.0	2		05/08/17 20:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 20:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2.0	2		05/08/17 20:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 20:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	2.0	2		05/08/17 20:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.0	2		05/08/17 20:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.0	2		05/08/17 20:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 20:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.0	2		05/08/17 20:28	10061-02-6	
Diisopropyl ether	ND	ug/L	2.0	2		05/08/17 20:28	108-20-3	
Ethylbenzene	ND	ug/L	2.0	2		05/08/17 20:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	2		05/08/17 20:28	87-68-3	
2-Hexanone	ND	ug/L	10.0	2		05/08/17 20:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.0	2		05/08/17 20:28	99-87-6	
Methylene Chloride	ND	ug/L	4.0	2		05/08/17 20:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	2		05/08/17 20:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.0	2		05/08/17 20:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	2		05/08/17 20:28	91-20-3	
Styrene	ND	ug/L	2.0	2		05/08/17 20:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 20:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.0	2		05/08/17 20:28	79-34-5	
Tetrachloroethene	ND	ug/L	2.0	2		05/08/17 20:28	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-100-050217	Lab ID: 92339162025	Collected: 05/02/17 08:00	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2.0	2		05/08/17 20:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	2		05/08/17 20:28	120-82-1	
1,1,1-Trichloroethane	17.3	ug/L	2.0	2		05/08/17 20:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.0	2		05/08/17 20:28	79-00-5	
Trichloroethene	ND	ug/L	2.0	2		05/08/17 20:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.0	2		05/08/17 20:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.0	2		05/08/17 20:28	96-18-4	
Vinyl acetate	ND	ug/L	4.0	2		05/08/17 20:28	108-05-4	
Vinyl chloride	ND	ug/L	2.0	2		05/08/17 20:28	75-01-4	
Xylene (Total)	ND	ug/L	2.0	2		05/08/17 20:28	1330-20-7	
m&p-Xylene	ND	ug/L	4.0	2		05/08/17 20:28	179601-23-1	
o-Xylene	ND	ug/L	2.0	2		05/08/17 20:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	2		05/08/17 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	2		05/08/17 20:28	17060-07-0	
Toluene-d8 (S)	109	%	70-130	2		05/08/17 20:28	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	202	ug/L	5.0	2.5		05/04/17 23:56	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	50-150	2.5		05/04/17 23:56	17060-07-0	
Toluene-d8 (S)	106	%	50-150	2.5		05/04/17 23:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-16-050217	Lab ID: 92339162026	Collected: 05/02/17 09:10	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2500	100		05/10/17 12:23	67-64-1	
Benzene	ND	ug/L	100	100		05/10/17 12:23	71-43-2	
Bromobenzene	ND	ug/L	100	100		05/10/17 12:23	108-86-1	
Bromoform	ND	ug/L	100	100		05/10/17 12:23	74-97-5	
Bromochloromethane	ND	ug/L	100	100		05/10/17 12:23	75-27-4	
Bromodichloromethane	ND	ug/L	100	100		05/10/17 12:23	124-48-1	
Bromomethane	ND	ug/L	200	100		05/10/17 12:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	500	100		05/10/17 12:23	78-93-3	
Carbon tetrachloride	ND	ug/L	100	100		05/10/17 12:23	56-23-5	
Chlorobenzene	ND	ug/L	100	100		05/10/17 12:23	108-90-7	
Chloroethane	225	ug/L	100	100		05/10/17 12:23	75-00-3	
Chloroform	ND	ug/L	100	100		05/10/17 12:23	67-66-3	
Chloromethane	ND	ug/L	100	100		05/10/17 12:23	74-87-3	
2-Chlorotoluene	ND	ug/L	100	100		05/10/17 12:23	95-49-8	
4-Chlorotoluene	ND	ug/L	100	100		05/10/17 12:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	100		05/10/17 12:23	96-12-8	
Dibromochloromethane	ND	ug/L	100	100		05/10/17 12:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	100		05/10/17 12:23	106-93-4	
Dibromomethane	ND	ug/L	100	100		05/10/17 12:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	100		05/10/17 12:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	100		05/10/17 12:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	100		05/10/17 12:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	100		05/10/17 12:23	75-71-8	
1,1-Dichloroethane	7910	ug/L	100	100		05/10/17 12:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	100		05/10/17 12:23	107-06-2	
1,1-Dichloroethene	10500	ug/L	100	100		05/10/17 12:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	100	100		05/10/17 12:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		05/10/17 12:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	100		05/10/17 12:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	100		05/10/17 12:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	100		05/10/17 12:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	100		05/10/17 12:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	100		05/10/17 12:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	100		05/10/17 12:23	10061-02-6	
Diisopropyl ether	ND	ug/L	100	100		05/10/17 12:23	108-20-3	
Ethylbenzene	ND	ug/L	100	100		05/10/17 12:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	100		05/10/17 12:23	87-68-3	
2-Hexanone	ND	ug/L	500	100		05/10/17 12:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	100	100		05/10/17 12:23	99-87-6	
Methylene Chloride	ND	ug/L	200	100		05/10/17 12:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	100		05/10/17 12:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	100		05/10/17 12:23	1634-04-4	
Naphthalene	ND	ug/L	100	100		05/10/17 12:23	91-20-3	
Styrene	ND	ug/L	100	100		05/10/17 12:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	100		05/10/17 12:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		05/10/17 12:23	79-34-5	
Tetrachloroethene	ND	ug/L	100	100		05/10/17 12:23	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-16-050217	Lab ID: 92339162026	Collected: 05/02/17 09:10	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	100	100		05/10/17 12:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	100		05/10/17 12:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	100		05/10/17 12:23	120-82-1	
1,1,1-Trichloroethane	8930	ug/L	100	100		05/10/17 12:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	100		05/10/17 12:23	79-00-5	
Trichloroethene	ND	ug/L	100	100		05/10/17 12:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	100		05/10/17 12:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	100		05/10/17 12:23	96-18-4	
Vinyl acetate	ND	ug/L	200	100		05/10/17 12:23	108-05-4	
Vinyl chloride	ND	ug/L	100	100		05/10/17 12:23	75-01-4	
Xylene (Total)	ND	ug/L	100	100		05/10/17 12:23	1330-20-7	
m&p-Xylene	ND	ug/L	200	100		05/10/17 12:23	179601-23-1	
o-Xylene	ND	ug/L	100	100		05/10/17 12:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	100		05/10/17 12:23	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	100		05/10/17 12:23	17060-07-0	
Toluene-d8 (S)	106	%	70-130	100		05/10/17 12:23	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	971	ug/L	40.0	20		05/05/17 00:15	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	50-150	20		05/05/17 00:15	17060-07-0	
Toluene-d8 (S)	105	%	50-150	20		05/05/17 00:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-200-050217	Lab ID: 92339162027	Collected: 05/02/17 09:00	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		05/08/17 20:45	67-64-1	
Benzene	ND	ug/L	10.0	10		05/08/17 20:45	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		05/08/17 20:45	108-86-1	
Bromoform	ND	ug/L	10.0	10		05/08/17 20:45	74-97-5	
Bromochloromethane	ND	ug/L	10.0	10		05/08/17 20:45	75-27-4	
Bromodichloromethane	ND	ug/L	10.0	10		05/08/17 20:45	75-25-2	
Bromomethane	ND	ug/L	20.0	10		05/08/17 20:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		05/08/17 20:45	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		05/08/17 20:45	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		05/08/17 20:45	108-90-7	
Chloroethane	24.6	ug/L	10.0	10		05/08/17 20:45	75-00-3	
Chloroform	ND	ug/L	10.0	10		05/08/17 20:45	67-66-3	
Chloromethane	ND	ug/L	10.0	10		05/08/17 20:45	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		05/08/17 20:45	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		05/08/17 20:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		05/08/17 20:45	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		05/08/17 20:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		05/08/17 20:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		05/08/17 20:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		05/08/17 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		05/08/17 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		05/08/17 20:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		05/08/17 20:45	75-71-8	
1,1-Dichloroethane	741	ug/L	10.0	10		05/08/17 20:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		05/08/17 20:45	107-06-2	
1,1-Dichloroethene	1320	ug/L	10.0	10		05/08/17 20:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		05/08/17 20:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		05/08/17 20:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		05/08/17 20:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		05/08/17 20:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		05/08/17 20:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		05/08/17 20:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		05/08/17 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		05/08/17 20:45	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		05/08/17 20:45	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		05/08/17 20:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		05/08/17 20:45	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		05/08/17 20:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		05/08/17 20:45	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		05/08/17 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		05/08/17 20:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		05/08/17 20:45	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		05/08/17 20:45	91-20-3	
Styrene	ND	ug/L	10.0	10		05/08/17 20:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		05/08/17 20:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		05/08/17 20:45	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		05/08/17 20:45	127-18-4	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: MW-200-050217	Lab ID: 92339162027	Collected: 05/02/17 09:00	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		05/08/17 20:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		05/08/17 20:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		05/08/17 20:45	120-82-1	
1,1,1-Trichloroethane	31.3	ug/L	10.0	10		05/08/17 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		05/08/17 20:45	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		05/08/17 20:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		05/08/17 20:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		05/08/17 20:45	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		05/08/17 20:45	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		05/08/17 20:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	10		05/08/17 20:45	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		05/08/17 20:45	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		05/08/17 20:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	10		05/08/17 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	10		05/08/17 20:45	17060-07-0	
Toluene-d8 (S)	109	%	70-130	10		05/08/17 20:45	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	1000	ug/L	40.0	20		05/05/17 00:34	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	50-150	20		05/05/17 00:34	17060-07-0	
Toluene-d8 (S)	107	%	50-150	20		05/05/17 00:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: TRIP BLANK	Lab ID: 92339162028	Collected: 05/01/17 00:00	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		05/06/17 02:31	67-64-1	
Benzene	ND	ug/L	1.0	1		05/06/17 02:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		05/06/17 02:31	108-86-1	
Bromoform	ND	ug/L	1.0	1		05/06/17 02:31	74-97-5	
Bromochloromethane	ND	ug/L	1.0	1		05/06/17 02:31	75-27-4	
Bromodichloromethane	ND	ug/L	1.0	1		05/06/17 02:31	124-48-1	
Bromomethane	ND	ug/L	2.0	1		05/06/17 02:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		05/06/17 02:31	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		05/06/17 02:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/06/17 02:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/06/17 02:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		05/06/17 02:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/06/17 02:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 02:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		05/06/17 02:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		05/06/17 02:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		05/06/17 02:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		05/06/17 02:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		05/06/17 02:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 02:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 02:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/06/17 02:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		05/06/17 02:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/06/17 02:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/06/17 02:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/06/17 02:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 02:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/06/17 02:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 02:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		05/06/17 02:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		05/06/17 02:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		05/06/17 02:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 02:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/06/17 02:31	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		05/06/17 02:31	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		05/06/17 02:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		05/06/17 02:31	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		05/06/17 02:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		05/06/17 02:31	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		05/06/17 02:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		05/06/17 02:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		05/06/17 02:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		05/06/17 02:31	91-20-3	
Styrene	ND	ug/L	1.0	1		05/06/17 02:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 02:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/06/17 02:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/06/17 02:31	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Sample: TRIP BLANK	Lab ID: 92339162028	Collected: 05/01/17 00:00	Received: 05/03/17 11:26	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		05/06/17 02:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 02:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		05/06/17 02:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/06/17 02:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/06/17 02:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/06/17 02:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/06/17 02:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		05/06/17 02:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		05/06/17 02:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		05/06/17 02:31	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		05/06/17 02:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		05/06/17 02:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		05/06/17 02:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		05/06/17 02:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		05/06/17 02:31	17060-07-0	
Toluene-d8 (S)	108	%	70-130	1		05/06/17 02:31	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		05/05/17 17:41	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	50-150	1		05/05/17 17:41	17060-07-0	
Toluene-d8 (S)	109	%	50-150	1		05/05/17 17:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch: 359283 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level

Associated Lab Samples: 92339162002, 92339162003, 92339162005, 92339162006, 92339162008, 92339162009, 92339162010,
92339162013, 92339162014

METHOD BLANK: 1992723 Matrix: Water

Associated Lab Samples: 92339162002, 92339162003, 92339162005, 92339162006, 92339162008, 92339162009, 92339162010,
92339162013, 92339162014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/04/17 18:53	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/04/17 18:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/04/17 18:53	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/04/17 18:53	
1,1-Dichloroethane	ug/L	ND	1.0	05/04/17 18:53	
1,1-Dichloroethene	ug/L	ND	1.0	05/04/17 18:53	
1,1-Dichloropropene	ug/L	ND	1.0	05/04/17 18:53	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/04/17 18:53	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/04/17 18:53	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/04/17 18:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/04/17 18:53	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/04/17 18:53	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/04/17 18:53	
1,2-Dichloroethane	ug/L	ND	1.0	05/04/17 18:53	
1,2-Dichloropropane	ug/L	ND	1.0	05/04/17 18:53	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/04/17 18:53	
1,3-Dichloropropane	ug/L	ND	1.0	05/04/17 18:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/04/17 18:53	
2,2-Dichloropropane	ug/L	ND	1.0	05/04/17 18:53	
2-Butanone (MEK)	ug/L	ND	5.0	05/04/17 18:53	
2-Chlorotoluene	ug/L	ND	1.0	05/04/17 18:53	
2-Hexanone	ug/L	ND	5.0	05/04/17 18:53	
4-Chlorotoluene	ug/L	ND	1.0	05/04/17 18:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/04/17 18:53	
Acetone	ug/L	ND	25.0	05/04/17 18:53	
Benzene	ug/L	ND	1.0	05/04/17 18:53	
Bromobenzene	ug/L	ND	1.0	05/04/17 18:53	
Bromochloromethane	ug/L	ND	1.0	05/04/17 18:53	
Bromodichloromethane	ug/L	ND	1.0	05/04/17 18:53	
Bromoform	ug/L	ND	1.0	05/04/17 18:53	
Bromomethane	ug/L	ND	2.0	05/04/17 18:53	
Carbon tetrachloride	ug/L	ND	1.0	05/04/17 18:53	
Chlorobenzene	ug/L	ND	1.0	05/04/17 18:53	
Chloroethane	ug/L	ND	1.0	05/04/17 18:53	
Chloroform	ug/L	ND	1.0	05/04/17 18:53	
Chloromethane	ug/L	ND	1.0	05/04/17 18:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/04/17 18:53	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/04/17 18:53	
Dibromochloromethane	ug/L	ND	1.0	05/04/17 18:53	
Dibromomethane	ug/L	ND	1.0	05/04/17 18:53	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1992723

Matrix: Water

Associated Lab Samples: 92339162002, 92339162003, 92339162005, 92339162006, 92339162008, 92339162009, 92339162010,
92339162013, 92339162014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/04/17 18:53	
Diisopropyl ether	ug/L	ND	1.0	05/04/17 18:53	
Ethylbenzene	ug/L	ND	1.0	05/04/17 18:53	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/04/17 18:53	
m&p-Xylene	ug/L	ND	2.0	05/04/17 18:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/04/17 18:53	
Methylene Chloride	ug/L	ND	2.0	05/04/17 18:53	
Naphthalene	ug/L	ND	1.0	05/04/17 18:53	
o-Xylene	ug/L	ND	1.0	05/04/17 18:53	
p-Isopropyltoluene	ug/L	ND	1.0	05/04/17 18:53	
Styrene	ug/L	ND	1.0	05/04/17 18:53	
Tetrachloroethene	ug/L	ND	1.0	05/04/17 18:53	
Toluene	ug/L	ND	1.0	05/04/17 18:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/04/17 18:53	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/04/17 18:53	
Trichloroethene	ug/L	ND	1.0	05/04/17 18:53	
Trichlorofluoromethane	ug/L	ND	1.0	05/04/17 18:53	
Vinyl acetate	ug/L	ND	2.0	05/04/17 18:53	
Vinyl chloride	ug/L	ND	1.0	05/04/17 18:53	
Xylene (Total)	ug/L	ND	1.0	05/04/17 18:53	
1,2-Dichloroethane-d4 (S)	%	101	70-130	05/04/17 18:53	
4-Bromofluorobenzene (S)	%	95	70-130	05/04/17 18:53	
Toluene-d8 (S)	%	106	70-130	05/04/17 18:53	

LABORATORY CONTROL SAMPLE: 1992724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.3	105	70-130	
1,1,1-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	70-130	
1,1,2-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethane	ug/L	50	48.7	97	70-130	
1,1-Dichloroethene	ug/L	50	52.3	105	70-132	
1,1-Dichloropropene	ug/L	50	57.5	115	70-130	
1,2,3-Trichlorobenzene	ug/L	50	47.8	96	70-135	
1,2,3-Trichloropropane	ug/L	50	47.7	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	70-130	
1,2-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,2-Dichloroethane	ug/L	50	48.6	97	70-130	
1,2-Dichloropropane	ug/L	50	48.4	97	70-130	
1,3-Dichlorobenzene	ug/L	50	47.8	96	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1992724

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	54.3	109	70-130	
1,4-Dichlorobenzene	ug/L	50	48.8	98	70-130	
2,2-Dichloropropane	ug/L	50	50.9	102	58-145	
2-Butanone (MEK)	ug/L	100	126	126	70-145	
2-Chlorotoluene	ug/L	50	48.8	98	70-130	
2-Hexanone	ug/L	100	104	104	70-144	
4-Chlorotoluene	ug/L	50	48.3	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	93.8	94	70-140	
Acetone	ug/L	100	148	148	50-175	
Benzene	ug/L	50	49.0	98	70-130	
Bromobenzene	ug/L	50	48.6	97	70-130	
Bromochloromethane	ug/L	50	51.7	103	70-130	
Bromodichloromethane	ug/L	50	47.4	95	70-130	
Bromoform	ug/L	50	46.3	93	70-130	
Bromomethane	ug/L	50	59.1	118	54-130	
Carbon tetrachloride	ug/L	50	48.0	96	70-132	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	49.7	99	64-134	
Chloroform	ug/L	50	49.0	98	70-130	
Chloromethane	ug/L	50	63.8	128	64-130	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	70-130	
Dibromochloromethane	ug/L	50	55.0	110	70-130	
Dibromomethane	ug/L	50	42.2	84	70-131	
Dichlorodifluoromethane	ug/L	50	60.6	121	56-130	
Diisopropyl ether	ug/L	50	55.6	111	70-130	
Ethylbenzene	ug/L	50	48.7	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	45.6	91	70-130	
m&p-Xylene	ug/L	100	99.2	99	70-130	
Methyl-tert-butyl ether	ug/L	50	57.3	115	70-130	
Methylene Chloride	ug/L	50	52.5	105	63-130	
Naphthalene	ug/L	50	52.3	105	70-138	
o-Xylene	ug/L	50	48.4	97	70-130	
p-Isopropyltoluene	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	49.9	100	70-130	
Tetrachloroethene	ug/L	50	45.2	90	70-130	
Toluene	ug/L	50	45.6	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.8	106	70-132	
Trichloroethene	ug/L	50	50.6	101	70-130	
Trichlorofluoromethane	ug/L	50	53.3	107	62-133	
Vinyl acetate	ug/L	100	99.9	100	66-157	
Vinyl chloride	ug/L	50	51.3	103	50-150	
Xylene (Total)	ug/L	150	148	98	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

MATRIX SPIKE SAMPLE:	1993636							
Parameter	Units	92339162002	Spike Conc.	MS Result	MS % Rec	% Rec	Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	3.4	17	70-130	M1	
1,1,1-Trichloroethane	ug/L	ND	20	3.9	20	70-130	M1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	3.5	18	70-130	M1	
1,1,2-Trichloroethane	ug/L	ND	20	3.9	20	70-130	M1	
1,1-Dichloroethane	ug/L	ND	20	4.1	20	70-130	M1	
1,1-Dichloroethene	ug/L	ND	20	4.9	23	70-166	M1	
1,1-Dichloropropene	ug/L	ND	20	3.8	19	70-130	M1	
1,2,3-Trichlorobenzene	ug/L	ND	20	4.2	21	70-130	M1	
1,2,3-Trichloropropane	ug/L	ND	20	4.3	22	70-130	M1	
1,2,4-Trichlorobenzene	ug/L	ND	20	3.7	18	70-130	M1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	3.4	17	70-130	M1	
1,2-Dibromoethane (EDB)	ug/L	ND	20	3.4	17	70-130	M1	
1,2-Dichlorobenzene	ug/L	ND	20	3.9	20	70-130	M1	
1,2-Dichloroethane	ug/L	ND	20	4.0	20	70-130	M1	
1,2-Dichloropropane	ug/L	ND	20	3.9	20	70-130	M1	
1,3-Dichlorobenzene	ug/L	ND	20	3.8	19	70-130	M1	
1,3-Dichloropropane	ug/L	ND	20	3.6	18	70-130	M1	
1,4-Dichlorobenzene	ug/L	ND	20	3.8	19	70-130	M1	
2,2-Dichloropropane	ug/L	ND	20	3.9	20	70-130	M1	
2-Butanone (MEK)	ug/L	ND	40	8.8	22	70-130	M1	
2-Chlorotoluene	ug/L	ND	20	4.1	21	70-130	M1	
2-Hexanone	ug/L	ND	40	7.7	19	70-130	M1	
4-Chlorotoluene	ug/L	ND	20	3.7	18	70-130	M1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	8.2	20	70-130	M1	
Acetone	ug/L	ND	40	13.4J	18	70-130	M1	
Benzene	ug/L	ND	20	4.2	21	70-148	M1	
Bromobenzene	ug/L	ND	20	4.1	21	70-130	M1	
Bromochloromethane	ug/L	ND	20	3.9	20	70-130	M1	
Bromodichloromethane	ug/L	ND	20	4.0	20	70-130	M1	
Bromoform	ug/L	ND	20	7.8	39	70-130	M1	
Bromomethane	ug/L	ND	20	4.0	20	70-130	M1	
Carbon tetrachloride	ug/L	ND	20	4.1	20	70-130	M1	
Chlorobenzene	ug/L	ND	20	3.9	19	70-146	M1	
Chloroethane	ug/L	ND	20	4.7	24	70-130	M1	
Chloroform	ug/L	ND	20	4.1	21	70-130	M1	
Chloromethane	ug/L	ND	20	5.5	27	70-130	M1	
cis-1,2-Dichloroethene	ug/L	ND	20	4.2	21	70-130	M1	
cis-1,3-Dichloropropene	ug/L	ND	20	3.8	19	70-130	M1	
Dibromochloromethane	ug/L	ND	20	4.4	22	70-130	M1	
Dibromomethane	ug/L	ND	20	3.9	19	70-130	M1	
Dichlorodifluoromethane	ug/L	ND	20	5.0	25	70-130	M1	
Diisopropyl ether	ug/L	ND	20	3.6	18	70-130	M1	
Ethylbenzene	ug/L	ND	20	4.0	20	70-130	M1	
Hexachloro-1,3-butadiene	ug/L	ND	20	3.8	19	70-130	M1	
m&p-Xylene	ug/L	ND	40	8.0	20	70-130	M1	
Methyl-tert-butyl ether	ug/L	ND	20	4.4	18	70-130	M1	
Methylene Chloride	ug/L	ND	20	ND	1	70-130	M1	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE: 1993636

Parameter	Units	92339162002 Result	Spike	MS	MS	% Rec	Qualifiers
			Conc.	Result	% Rec	Limits	
Naphthalene	ug/L	ND	20	3.6	18	70-130	M1
o-Xylene	ug/L	ND	20	3.9	20	70-130	M1
p-Isopropyltoluene	ug/L	ND	20	3.7	18	70-130	M1
Styrene	ug/L	ND	20	3.8	19	70-130	M1
Tetrachloroethene	ug/L	ND	20	3.4	17	70-130	M1
Toluene	ug/L	ND	20	4.5	22	70-155	M1
trans-1,2-Dichloroethene	ug/L	ND	20	4.2	21	70-130	M1
trans-1,3-Dichloropropene	ug/L	ND	20	3.5	18	70-130	M1
Trichloroethene	ug/L	ND	20	3.6	18	69-151	M1
Trichlorofluoromethane	ug/L	ND	20	4.9	24	70-130	M1
Vinyl acetate	ug/L	ND	40	7.6	19	70-130	M1
Vinyl chloride	ug/L	ND	20	4.8	24	70-130	M1
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				108	70-130	

SAMPLE DUPLICATE: 1992726

Parameter	Units	92339162014 Result	Dup	RPD	Max	Qualifiers
			Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	27.7	26.5	5	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	6.6	6.7	2	30	
1,1-Dichloroethene	ug/L	5.9	5.7	3	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-Dichloropropene	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	
Benzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

SAMPLE DUPLICATE: 1992726

Parameter	Units	92339162014 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	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)	%	108	104	4		
4-Bromofluorobenzene (S)	%	94	92	3		
Toluene-d8 (S)	%	108	111	3		

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch:	359395	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples:	92339162011, 92339162012		

METHOD BLANK: 1993244 Matrix: Water

Associated Lab Samples: 92339162011, 92339162012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/05/17 16:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/05/17 16:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/05/17 16:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/05/17 16:10	
1,1-Dichloroethane	ug/L	ND	1.0	05/05/17 16:10	
1,1-Dichloroethene	ug/L	ND	1.0	05/05/17 16:10	
1,1-Dichloropropene	ug/L	ND	1.0	05/05/17 16:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/05/17 16:10	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/05/17 16:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/05/17 16:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/05/17 16:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/05/17 16:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/05/17 16:10	
1,2-Dichloroethane	ug/L	ND	1.0	05/05/17 16:10	
1,2-Dichloropropane	ug/L	ND	1.0	05/05/17 16:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/05/17 16:10	
1,3-Dichloropropane	ug/L	ND	1.0	05/05/17 16:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/05/17 16:10	
2,2-Dichloropropane	ug/L	ND	1.0	05/05/17 16:10	
2-Butanone (MEK)	ug/L	ND	5.0	05/05/17 16:10	
2-Chlorotoluene	ug/L	ND	1.0	05/05/17 16:10	
2-Hexanone	ug/L	ND	5.0	05/05/17 16:10	
4-Chlorotoluene	ug/L	ND	1.0	05/05/17 16:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/05/17 16:10	
Acetone	ug/L	ND	25.0	05/05/17 16:10	
Benzene	ug/L	ND	1.0	05/05/17 16:10	
Bromobenzene	ug/L	ND	1.0	05/05/17 16:10	
Bromochloromethane	ug/L	ND	1.0	05/05/17 16:10	
Bromodichloromethane	ug/L	ND	1.0	05/05/17 16:10	
Bromoform	ug/L	ND	1.0	05/05/17 16:10	
Bromomethane	ug/L	ND	2.0	05/05/17 16:10	
Carbon tetrachloride	ug/L	ND	1.0	05/05/17 16:10	
Chlorobenzene	ug/L	ND	1.0	05/05/17 16:10	
Chloroethane	ug/L	ND	1.0	05/05/17 16:10	
Chloroform	ug/L	ND	1.0	05/05/17 16:10	
Chloromethane	ug/L	ND	1.0	05/05/17 16:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/05/17 16:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/05/17 16:10	
Dibromochloromethane	ug/L	ND	1.0	05/05/17 16:10	
Dibromomethane	ug/L	ND	1.0	05/05/17 16:10	
Dichlorodifluoromethane	ug/L	ND	1.0	05/05/17 16:10	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1993244

Matrix: Water

Associated Lab Samples: 92339162011, 92339162012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/05/17 16:10	
Ethylbenzene	ug/L	ND	1.0	05/05/17 16:10	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/05/17 16:10	
m&p-Xylene	ug/L	ND	2.0	05/05/17 16:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/05/17 16:10	
Methylene Chloride	ug/L	ND	2.0	05/05/17 16:10	
Naphthalene	ug/L	ND	1.0	05/05/17 16:10	
o-Xylene	ug/L	ND	1.0	05/05/17 16:10	
p-Isopropyltoluene	ug/L	ND	1.0	05/05/17 16:10	
Styrene	ug/L	ND	1.0	05/05/17 16:10	
Tetrachloroethene	ug/L	ND	1.0	05/05/17 16:10	
Toluene	ug/L	ND	1.0	05/05/17 16:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/05/17 16:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/05/17 16:10	
Trichloroethene	ug/L	ND	1.0	05/05/17 16:10	
Trichlorofluoromethane	ug/L	ND	1.0	05/05/17 16:10	
Vinyl acetate	ug/L	ND	2.0	05/05/17 16:10	
Vinyl chloride	ug/L	ND	1.0	05/05/17 16:10	
Xylene (Total)	ug/L	ND	1.0	05/05/17 16:10	
1,2-Dichloroethane-d4 (S)	%	104	70-130	05/05/17 16:10	
4-Bromofluorobenzene (S)	%	98	70-130	05/05/17 16:10	
Toluene-d8 (S)	%	110	70-130	05/05/17 16:10	

LABORATORY CONTROL SAMPLE: 1993245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethene	ug/L	50	50.1	100	70-132	
1,1-Dichloropropene	ug/L	50	53.3	107	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.5	103	70-135	
1,2,3-Trichloropropane	ug/L	50	46.9	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.2	106	70-130	
1,2-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
1,2-Dichloropropene	ug/L	50	49.2	98	70-130	
1,3-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,3-Dichloropropane	ug/L	50	52.4	105	70-130	
1,4-Dichlorobenzene	ug/L	50	47.4	95	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1993245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	50.6	101	58-145	
2-Butanone (MEK)	ug/L	100	99.8	100	70-145	
2-Chlorotoluene	ug/L	50	47.9	96	70-130	
2-Hexanone	ug/L	100	94.5	95	70-144	
4-Chlorotoluene	ug/L	50	46.6	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.1	88	70-140	
Acetone	ug/L	100	104	104	50-175	
Benzene	ug/L	50	51.6	103	70-130	
Bromobenzene	ug/L	50	48.4	97	70-130	
Bromochloromethane	ug/L	50	52.0	104	70-130	
Bromodichloromethane	ug/L	50	50.3	101	70-130	
Bromoform	ug/L	50	40.9	82	70-130	
Bromomethane	ug/L	50	67.5	135	54-130 L1	
Carbon tetrachloride	ug/L	50	51.5	103	70-132	
Chlorobenzene	ug/L	50	49.8	100	70-130	
Chloroethane	ug/L	50	46.6	93	64-134	
Chloroform	ug/L	50	49.2	98	70-130	
Chloromethane	ug/L	50	58.2	116	64-130	
cis-1,2-Dichloroethene	ug/L	50	49.0	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.1	106	70-130	
Dibromochloromethane	ug/L	50	49.6	99	70-130	
Dibromomethane	ug/L	50	48.4	97	70-131	
Dichlorodifluoromethane	ug/L	50	61.8	124	56-130	
Diisopropyl ether	ug/L	50	50.1	100	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	70-130	
m&p-Xylene	ug/L	100	96.5	97	70-130	
Methyl-tert-butyl ether	ug/L	50	50.6	101	70-130	
Methylene Chloride	ug/L	50	54.1	108	63-130	
Naphthalene	ug/L	50	51.4	103	70-138	
o-Xylene	ug/L	50	48.4	97	70-130	
p-Isopropyltoluene	ug/L	50	49.1	98	70-130	
Styrene	ug/L	50	49.5	99	70-130	
Tetrachloroethene	ug/L	50	48.8	98	70-130	
Toluene	ug/L	50	48.1	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	70-132	
Trichloroethene	ug/L	50	50.4	101	70-130	
Trichlorofluoromethane	ug/L	50	48.6	97	62-133	
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	51.3	103	50-150	
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Parameter	Units	1993246		1993247						% Rec	Limits	RPD	Max RPD	Max Qual
		92339019001	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.0	19.8	110	99	70-130	11	30			
1,1,1-Trichloroethane	ug/L	ND	20	20	23.5	23.1	117	115	70-130	2	30			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.7	20.2	109	101	70-130	7	30			
1,1,2-Trichloroethane	ug/L	ND	20	20	22.4	20.7	112	103	70-130	8	30			
1,1-Dichloroethane	ug/L	0.96J	20	20	23.8	24.1	114	116	70-130	1	30			
1,1-Dichloroethene	ug/L	ND	20	20	25.5	26.1	128	130	70-166	2	30			
1,1-Dichloropropene	ug/L	ND	20	20	25.9	23.8	130	119	70-130	9	30			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	24.4	22.3	122	112	70-130	9	30			
1,2,3-Trichloropropane	ug/L	ND	20	20	23.5	19.4	117	97	70-130	19	30			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	23.0	21.4	115	107	70-130	7	30			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.9	19.9	109	99	70-130	10	30			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.0	21.2	110	106	70-130	4	30			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.5	20.8	112	104	70-130	8	30			
1,2-Dichloroethane	ug/L	ND	20	20	22.5	21.5	113	107	70-130	5	30			
1,2-Dichloropropane	ug/L	ND	20	20	24.3	23.2	121	116	70-130	5	30			
1,3-Dichlorobenzene	ug/L	ND	20	20	21.5	20.0	107	100	70-130	7	30			
1,3-Dichloropropane	ug/L	ND	20	20	23.3	21.7	116	109	70-130	7	30			
1,4-Dichlorobenzene	ug/L	2.8	20	20	23.3	22.9	103	101	70-130	2	30			
2,2-Dichloropropane	ug/L	ND	20	20	24.6	24.0	123	120	70-130	2	30			
2-Butanone (MEK)	ug/L	ND	40	40	48.2	39.6	121	99	70-130	20	30			
2-Chlorotoluene	ug/L	ND	20	20	22.8	21.8	114	109	70-130	4	30			
2-Hexanone	ug/L	ND	40	40	50.3	42.9	126	107	70-130	16	30			
4-Chlorotoluene	ug/L	ND	20	20	21.7	20.4	109	102	70-130	7	30			
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	44.9	42.9	112	107	70-130	5	30			
Acetone	ug/L	ND	40	40	54.4	45.4	125	103	70-130	18	30			
Benzene	ug/L	ND	20	20	24.8	23.3	124	117	70-148	6	30			
Bromobenzene	ug/L	ND	20	20	22.4	21.3	112	107	70-130	5	30			
Bromochloromethane	ug/L	ND	20	20	23.6	23.5	118	117	70-130	1	30			
Bromodichloromethane	ug/L	ND	20	20	22.4	21.7	112	108	70-130	3	30			
Bromoform	ug/L	ND	20	20	20.9	19.4	104	97	70-130	7	30			
Bromomethane	ug/L	ND	20	20	27.8	28.2	139	141	70-130	1	30 M0			
Carbon tetrachloride	ug/L	ND	20	20	24.5	24.1	122	121	70-130	2	30			
Chlorobenzene	ug/L	0.64J	20	20	22.8	21.1	111	102	70-146	8	30			
Chloroethane	ug/L	ND	20	20	24.8	24.5	124	123	70-130	1	30			
Chloroform	ug/L	ND	20	20	22.9	23.1	115	116	70-130	1	30			
Chloromethane	ug/L	ND	20	20	30.7	29.2	153	146	70-130	5	30 M1			
cis-1,2-Dichloroethene	ug/L	2.1	20	20	24.5	24.5	112	112	70-130	0	30			
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.5	21.9	117	109	70-130	7	30			
Dibromochloromethane	ug/L	ND	20	20	21.3	19.7	106	99	70-130	8	30			
Dibromomethane	ug/L	ND	20	20	23.3	21.4	117	107	70-130	9	30			
Dichlorodifluoromethane	ug/L	ND	20	20	30.5	29.5	153	148	70-130	3	30 M1			
Diisopropyl ether	ug/L	0.14J	20	20	24.4	21.8	121	108	70-130	11	30			
Ethylbenzene	ug/L	ND	20	20	23.1	21.7	116	109	70-130	6	30			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	26.2	23.5	131	118	70-130	11	30 M1			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

Parameter	Units	1993246		1993247		% Rec	MSD % Rec	% Rec Limits	Max	
		92339019001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result				RPD RPD	Qual
m&p-Xylene	ug/L	ND	40	40	45.1	42.8	112	106	70-130	5 30
Methyl-tert-butyl ether	ug/L	ND	20	20	23.2	22.3	116	112	70-130	4 30
Methylene Chloride	ug/L	ND	20	20	26.1	25.7	130	129	70-130	1 30
Naphthalene	ug/L	ND	20	20	22.6	20.9	113	105	70-130	8 30
o-Xylene	ug/L	0.27J	20	20	22.2	21.3	110	105	70-130	4 30
p-Isopropyltoluene	ug/L	ND	20	20	23.0	21.2	115	106	70-130	8 30
Styrene	ug/L	ND	20	20	21.9	20.9	109	104	70-130	5 30
Tetrachloroethene	ug/L	ND	20	20	22.2	21.3	111	106	70-130	4 30
Toluene	ug/L	ND	20	20	22.9	22.4	115	112	70-155	2 30
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.6	23.2	118	116	70-130	2 30
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.2	20.9	111	104	70-130	6 30
Trichloroethene	ug/L	ND	20	20	24.1	22.8	120	114	69-151	6 30
Trichlorofluoromethane	ug/L	ND	20	20	25.3	24.5	127	123	70-130	3 30
Vinyl acetate	ug/L	ND	40	40	45.3	41.9	113	105	70-130	8 30
Vinyl chloride	ug/L	ND	20	20	26.7	27.4	133	137	70-130	3 30 M1
1,2-Dichloroethane-d4 (S)	%						100	105	70-130	
4-Bromofluorobenzene (S)	%						101	103	70-130	
Toluene-d8 (S)	%						98	101	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch:	359429	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples:	92339162017, 92339162020, 92339162023, 92339162028		

METHOD BLANK: 1993549 Matrix: Water

Associated Lab Samples: 92339162017, 92339162020, 92339162023, 92339162028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/06/17 01:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/06/17 01:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/06/17 01:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/06/17 01:39	
1,1-Dichloroethane	ug/L	ND	1.0	05/06/17 01:39	
1,1-Dichloroethene	ug/L	ND	1.0	05/06/17 01:39	
1,1-Dichloropropene	ug/L	ND	1.0	05/06/17 01:39	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/06/17 01:39	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/06/17 01:39	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/06/17 01:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/06/17 01:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/06/17 01:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/06/17 01:39	
1,2-Dichloroethane	ug/L	ND	1.0	05/06/17 01:39	
1,2-Dichloropropane	ug/L	ND	1.0	05/06/17 01:39	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/06/17 01:39	
1,3-Dichloropropane	ug/L	ND	1.0	05/06/17 01:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/06/17 01:39	
2,2-Dichloropropane	ug/L	ND	1.0	05/06/17 01:39	
2-Butanone (MEK)	ug/L	ND	5.0	05/06/17 01:39	
2-Chlorotoluene	ug/L	ND	1.0	05/06/17 01:39	
2-Hexanone	ug/L	ND	5.0	05/06/17 01:39	
4-Chlorotoluene	ug/L	ND	1.0	05/06/17 01:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/06/17 01:39	
Acetone	ug/L	ND	25.0	05/06/17 01:39	
Benzene	ug/L	ND	1.0	05/06/17 01:39	
Bromobenzene	ug/L	ND	1.0	05/06/17 01:39	
Bromochloromethane	ug/L	ND	1.0	05/06/17 01:39	
Bromodichloromethane	ug/L	ND	1.0	05/06/17 01:39	
Bromoform	ug/L	ND	1.0	05/06/17 01:39	
Bromomethane	ug/L	ND	2.0	05/06/17 01:39	
Carbon tetrachloride	ug/L	ND	1.0	05/06/17 01:39	
Chlorobenzene	ug/L	ND	1.0	05/06/17 01:39	
Chloroethane	ug/L	ND	1.0	05/06/17 01:39	
Chloroform	ug/L	ND	1.0	05/06/17 01:39	
Chloromethane	ug/L	ND	1.0	05/06/17 01:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/06/17 01:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/06/17 01:39	
Dibromochloromethane	ug/L	ND	1.0	05/06/17 01:39	
Dibromomethane	ug/L	ND	1.0	05/06/17 01:39	
Dichlorodifluoromethane	ug/L	ND	1.0	05/06/17 01:39	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1993549

Matrix: Water

Associated Lab Samples: 92339162017, 92339162020, 92339162023, 92339162028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/06/17 01:39	
Ethylbenzene	ug/L	ND	1.0	05/06/17 01:39	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/06/17 01:39	
m&p-Xylene	ug/L	ND	2.0	05/06/17 01:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/06/17 01:39	
Methylene Chloride	ug/L	ND	2.0	05/06/17 01:39	
Naphthalene	ug/L	ND	1.0	05/06/17 01:39	
o-Xylene	ug/L	ND	1.0	05/06/17 01:39	
p-Isopropyltoluene	ug/L	ND	1.0	05/06/17 01:39	
Styrene	ug/L	ND	1.0	05/06/17 01:39	
Tetrachloroethene	ug/L	ND	1.0	05/06/17 01:39	
Toluene	ug/L	ND	1.0	05/06/17 01:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/06/17 01:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/06/17 01:39	
Trichloroethene	ug/L	ND	1.0	05/06/17 01:39	
Trichlorofluoromethane	ug/L	ND	1.0	05/06/17 01:39	
Vinyl acetate	ug/L	ND	2.0	05/06/17 01:39	
Vinyl chloride	ug/L	ND	1.0	05/06/17 01:39	
Xylene (Total)	ug/L	ND	1.0	05/06/17 01:39	
1,2-Dichloroethane-d4 (S)	%	103	70-130	05/06/17 01:39	
4-Bromofluorobenzene (S)	%	98	70-130	05/06/17 01:39	
Toluene-d8 (S)	%	107	70-130	05/06/17 01:39	

LABORATORY CONTROL SAMPLE: 1993550

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	47.8	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.0	98	70-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	47.4	95	70-130	
1,1-Dichloroethene	ug/L	50	51.4	103	70-132	
1,1-Dichloropropene	ug/L	50	53.0	106	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	70-135	
1,2,3-Trichloropropane	ug/L	50	49.4	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.3	97	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	70-130	
1,2-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,2-Dichloroethane	ug/L	50	47.4	95	70-130	
1,2-Dichloropropene	ug/L	50	49.8	100	70-130	
1,3-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,3-Dichloropropane	ug/L	50	54.1	108	70-130	
1,4-Dichlorobenzene	ug/L	50	47.1	94	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1993550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	46.3	93	58-145	
2-Butanone (MEK)	ug/L	100	108	108	70-145	
2-Chlorotoluene	ug/L	50	49.7	99	70-130	
2-Hexanone	ug/L	100	104	104	70-144	
4-Chlorotoluene	ug/L	50	47.4	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.2	99	70-140	
Acetone	ug/L	100	99.5	99	50-175	
Benzene	ug/L	50	51.8	104	70-130	
Bromobenzene	ug/L	50	50.4	101	70-130	
Bromochloromethane	ug/L	50	50.2	100	70-130	
Bromodichloromethane	ug/L	50	49.9	100	70-130	
Bromoform	ug/L	50	42.0	84	70-130	
Bromomethane	ug/L	50	64.0	128	54-130	
Carbon tetrachloride	ug/L	50	49.9	100	70-132	
Chlorobenzene	ug/L	50	49.8	100	70-130	
Chloroethane	ug/L	50	46.8	94	64-134	
Chloroform	ug/L	50	48.3	97	70-130	
Chloromethane	ug/L	50	55.6	111	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.9	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	70-130	
Dibromochloromethane	ug/L	50	49.4	99	70-130	
Dibromomethane	ug/L	50	48.2	96	70-131	
Dichlorodifluoromethane	ug/L	50	57.2	114	56-130	
Diisopropyl ether	ug/L	50	50.9	102	70-130	
Ethylbenzene	ug/L	50	48.9	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.0	100	70-130	
m&p-Xylene	ug/L	100	96.2	96	70-130	
Methyl-tert-butyl ether	ug/L	50	53.4	107	70-130	
Methylene Chloride	ug/L	50	51.1	102	63-130	
Naphthalene	ug/L	50	51.5	103	70-138	
o-Xylene	ug/L	50	47.8	96	70-130	
p-Isopropyltoluene	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	48.5	97	70-130	
Tetrachloroethene	ug/L	50	46.8	94	70-130	
Toluene	ug/L	50	48.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	70-132	
Trichloroethene	ug/L	50	51.1	102	70-130	
Trichlorofluoromethane	ug/L	50	47.4	95	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	49.3	99	50-150	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			94	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE:

1994182

Parameter	Units	92339164001 Result	Spike	MS	MS	% Rec	Qualifiers
			Conc.	Result	% Rec	Limits	
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.3	106	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.7	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.9	104	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	ND	20	23.6	118	70-130	
1,1-Dichloroethene	ug/L	ND	20	26.3	132	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.7	118	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.5	112	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.8	109	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.5	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.7	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.2	106	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.5	107	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.4	112	70-130	
1,2-Dichloropropane	ug/L	ND	20	23.5	118	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.1	105	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.4	112	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.4	102	70-130	
2,2-Dichloropropane	ug/L	ND	20	23.5	117	70-130	
2-Butanone (MEK)	ug/L	ND	40	42.9	107	70-130	
2-Chlorotoluene	ug/L	ND	20	22.2	111	70-130	
2-Hexanone	ug/L	ND	40	45.2	113	70-130	
4-Chlorotoluene	ug/L	ND	20	21.6	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	42.6	107	70-130	
Acetone	ug/L	ND	40	48.9	109	70-130	
Benzene	ug/L	ND	20	23.6	118	70-148	
Bromobenzene	ug/L	ND	20	22.1	111	70-130	
Bromochloromethane	ug/L	ND	20	23.0	115	70-130	
Bromodichloromethane	ug/L	ND	20	22.5	113	70-130	
Bromoform	ug/L	ND	20	20.5	103	70-130	
Bromomethane	ug/L	ND	20	28.7	144	70-130 M1	
Carbon tetrachloride	ug/L	ND	20	23.8	119	70-130	
Chlorobenzene	ug/L	ND	20	22.5	112	70-146	
Chloroethane	ug/L	ND	20	23.0	115	70-130	
Chloroform	ug/L	ND	20	22.1	111	70-130	
Chloromethane	ug/L	ND	20	29.1	146	70-130 M1	
cis-1,2-Dichloroethene	ug/L	ND	20	22.7	114	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	23.4	117	70-130	
Dibromochloromethane	ug/L	ND	20	21.0	105	70-130	
Dibromomethane	ug/L	ND	20	22.2	111	70-130	
Dichlorodifluoromethane	ug/L	ND	20	27.4	137	70-130 M1	
Diisopropyl ether	ug/L	ND	20	22.6	113	70-130	
Ethylbenzene	ug/L	ND	20	23.2	116	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	24.5	123	70-130	
m&p-Xylene	ug/L	ND	40	45.0	112	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.7	108	70-130	
Methylene Chloride	ug/L	ND	20	23.6	118	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

MATRIX SPIKE SAMPLE: 1994182

Parameter	Units	92339164001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	21.4	107	70-130	
o-Xylene	ug/L	ND	20	22.8	114	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.0	110	70-130	
Styrene	ug/L	ND	20	21.7	109	70-130	
Tetrachloroethene	ug/L	ND	20	22.0	110	70-130	
Toluene	ug/L	ND	20	22.5	112	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.2	116	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	22.2	111	70-130	
Trichloroethene	ug/L	ND	20	23.2	116	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.7	119	70-130	
Vinyl acetate	ug/L	ND	40	43.7	109	70-130	
Vinyl chloride	ug/L	ND	20	26.2	131	70-130 M1	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1994183

Parameter	Units	92339170006 Result	Dup Result	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	30	
1,1,1-Trichloroethane	ug/L	ND	ND	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	30	
1,1,2-Trichloroethane	ug/L	ND	ND	30	
1,1-Dichloroethane	ug/L	ND	ND	30	
1,1-Dichloroethene	ug/L	ND	ND	30	
1,1-Dichloropropene	ug/L	ND	ND	30	
1,2,3-Trichlorobenzene	ug/L	ND	ND	30	
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-Dichloropropene	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	
Benzene	ug/L	ND	ND	30	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

SAMPLE DUPLICATE: 1994183

Parameter	Units	92339170006 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	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)	%	107	103	4		
4-Bromofluorobenzene (S)	%	99	103	4		
Toluene-d8 (S)	%	111	107	4		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch:	359430	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples:	92339162019		

METHOD BLANK: 1993551 Matrix: Water

Associated Lab Samples: 92339162019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/06/17 01:57	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/06/17 01:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/06/17 01:57	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/06/17 01:57	
1,1-Dichloroethane	ug/L	ND	1.0	05/06/17 01:57	
1,1-Dichloroethene	ug/L	ND	1.0	05/06/17 01:57	
1,1-Dichloropropene	ug/L	ND	1.0	05/06/17 01:57	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/06/17 01:57	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/06/17 01:57	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/06/17 01:57	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/06/17 01:57	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/06/17 01:57	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/06/17 01:57	
1,2-Dichloroethane	ug/L	ND	1.0	05/06/17 01:57	
1,2-Dichloropropane	ug/L	ND	1.0	05/06/17 01:57	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/06/17 01:57	
1,3-Dichloropropane	ug/L	ND	1.0	05/06/17 01:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/06/17 01:57	
2,2-Dichloropropane	ug/L	ND	1.0	05/06/17 01:57	
2-Butanone (MEK)	ug/L	ND	5.0	05/06/17 01:57	
2-Chlorotoluene	ug/L	ND	1.0	05/06/17 01:57	
2-Hexanone	ug/L	ND	5.0	05/06/17 01:57	
4-Chlorotoluene	ug/L	ND	1.0	05/06/17 01:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/06/17 01:57	
Acetone	ug/L	ND	25.0	05/06/17 01:57	
Benzene	ug/L	ND	1.0	05/06/17 01:57	
Bromobenzene	ug/L	ND	1.0	05/06/17 01:57	
Bromochloromethane	ug/L	ND	1.0	05/06/17 01:57	
Bromodichloromethane	ug/L	ND	1.0	05/06/17 01:57	
Bromoform	ug/L	ND	1.0	05/06/17 01:57	
Bromomethane	ug/L	ND	2.0	05/06/17 01:57	
Carbon tetrachloride	ug/L	ND	1.0	05/06/17 01:57	
Chlorobenzene	ug/L	ND	1.0	05/06/17 01:57	
Chloroethane	ug/L	ND	1.0	05/06/17 01:57	
Chloroform	ug/L	ND	1.0	05/06/17 01:57	
Chloromethane	ug/L	ND	1.0	05/06/17 01:57	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/06/17 01:57	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/06/17 01:57	
Dibromochloromethane	ug/L	ND	1.0	05/06/17 01:57	
Dibromomethane	ug/L	ND	1.0	05/06/17 01:57	
Dichlorodifluoromethane	ug/L	ND	1.0	05/06/17 01:57	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1993551

Matrix: Water

Associated Lab Samples: 92339162019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/06/17 01:57	
Ethylbenzene	ug/L	ND	1.0	05/06/17 01:57	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/06/17 01:57	
m&p-Xylene	ug/L	ND	2.0	05/06/17 01:57	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/06/17 01:57	
Methylene Chloride	ug/L	ND	2.0	05/06/17 01:57	
Naphthalene	ug/L	ND	1.0	05/06/17 01:57	
o-Xylene	ug/L	ND	1.0	05/06/17 01:57	
p-Isopropyltoluene	ug/L	ND	1.0	05/06/17 01:57	
Styrene	ug/L	ND	1.0	05/06/17 01:57	
Tetrachloroethene	ug/L	ND	1.0	05/06/17 01:57	
Toluene	ug/L	ND	1.0	05/06/17 01:57	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/06/17 01:57	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/06/17 01:57	
Trichloroethene	ug/L	ND	1.0	05/06/17 01:57	
Trichlorofluoromethane	ug/L	ND	1.0	05/06/17 01:57	
Vinyl acetate	ug/L	ND	2.0	05/06/17 01:57	
Vinyl chloride	ug/L	ND	1.0	05/06/17 01:57	
Xylene (Total)	ug/L	ND	1.0	05/06/17 01:57	
1,2-Dichloroethane-d4 (S)	%	103	70-130	05/06/17 01:57	
4-Bromofluorobenzene (S)	%	99	70-130	05/06/17 01:57	
Toluene-d8 (S)	%	107	70-130	05/06/17 01:57	

LABORATORY CONTROL SAMPLE: 1993552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.8	108	70-130	
1,1,1-Trichloroethane	ug/L	50	49.0	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	100	70-130	
1,1,2-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethene	ug/L	50	47.1	94	70-132	
1,1-Dichloropropene	ug/L	50	52.5	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.4	105	70-135	
1,2,3-Trichloropropane	ug/L	50	51.2	102	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.6	101	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.1	100	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	70-130	
1,2-Dichlorobenzene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane	ug/L	50	46.4	93	70-130	
1,2-Dichloropropene	ug/L	50	50.3	101	70-130	
1,3-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,3-Dichloropropane	ug/L	50	54.9	110	70-130	
1,4-Dichlorobenzene	ug/L	50	49.0	98	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1993552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	44.4	89	58-145	
2-Butanone (MEK)	ug/L	100	108	108	70-145	
2-Chlorotoluene	ug/L	50	49.5	99	70-130	
2-Hexanone	ug/L	100	106	106	70-144	
4-Chlorotoluene	ug/L	50	47.3	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.4	97	70-140	
Acetone	ug/L	100	106	106	50-175	
Benzene	ug/L	50	51.4	103	70-130	
Bromobenzene	ug/L	50	49.3	99	70-130	
Bromochloromethane	ug/L	50	50.2	100	70-130	
Bromodichloromethane	ug/L	50	49.0	98	70-130	
Bromoform	ug/L	50	43.0	86	70-130	
Bromomethane	ug/L	50	60.2	120	54-130	
Carbon tetrachloride	ug/L	50	50.5	101	70-132	
Chlorobenzene	ug/L	50	50.7	101	70-130	
Chloroethane	ug/L	50	46.5	93	64-134	
Chloroform	ug/L	50	47.9	96	70-130	
Chloromethane	ug/L	50	55.6	111	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.0	106	70-130	
Dibromochloromethane	ug/L	50	51.1	102	70-130	
Dibromomethane	ug/L	50	48.8	98	70-131	
Dichlorodifluoromethane	ug/L	50	58.8	118	56-130	
Diisopropyl ether	ug/L	50	52.0	104	70-130	
Ethylbenzene	ug/L	50	51.0	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.7	103	70-130	
m&p-Xylene	ug/L	100	99.6	100	70-130	
Methyl-tert-butyl ether	ug/L	50	53.4	107	70-130	
Methylene Chloride	ug/L	50	52.4	105	63-130	
Naphthalene	ug/L	50	51.8	104	70-138	
o-Xylene	ug/L	50	49.6	99	70-130	
p-Isopropyltoluene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	50.9	102	70-130	
Tetrachloroethene	ug/L	50	49.7	99	70-130	
Toluene	ug/L	50	48.5	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	70-132	
Trichloroethene	ug/L	50	51.5	103	70-130	
Trichlorofluoromethane	ug/L	50	48.6	97	62-133	
Vinyl acetate	ug/L	100	101	101	66-157	
Vinyl chloride	ug/L	50	50.2	100	50-150	
Xylene (Total)	ug/L	150	149	99	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

MATRIX SPIKE SAMPLE:	1994184						
Parameter	Units	92339289001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.2	106	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.0	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.6	108	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.8	109	70-130	
1,1-Dichloroethane	ug/L	ND	20	24.2	121	70-130	
1,1-Dichloroethene	ug/L	ND	20	25.7	128	70-166	
1,1-Dichloropropene	ug/L	ND	20	25.2	126	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.6	113	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.8	109	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.0	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.8	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.1	111	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.2	111	70-130	
1,2-Dichloropropane	ug/L	ND	20	24.4	122	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.7	108	70-130	
1,3-Dichloropropane	ug/L	ND	20	23.7	119	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.6	103	70-130	
2,2-Dichloropropane	ug/L	ND	20	25.1	125	70-130	
2-Butanone (MEK)	ug/L	ND	40	45.9	115	70-130	
2-Chlorotoluene	ug/L	ND	20	23.1	115	70-130	
2-Hexanone	ug/L	ND	40	46.9	117	70-130	
4-Chlorotoluene	ug/L	ND	20	21.7	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	43.1	108	70-130	
Acetone	ug/L	ND	40	48.7	108	70-130	
Benzene	ug/L	ND	20	24.5	122	70-148	
Bromobenzene	ug/L	ND	20	22.7	114	70-130	
Bromochloromethane	ug/L	ND	20	23.7	119	70-130	
Bromodichloromethane	ug/L	ND	20	22.7	114	70-130	
Bromoform	ug/L	ND	20	20.8	104	70-130	
Bromomethane	ug/L	ND	20	30.2	151	70-130 M1	
Carbon tetrachloride	ug/L	ND	20	25.2	126	70-130	
Chlorobenzene	ug/L	ND	20	22.1	110	70-146	
Chloroethane	ug/L	ND	20	24.4	122	70-130	
Chloroform	ug/L	ND	20	23.6	118	70-130	
Chloromethane	ug/L	ND	20	30.1	150	70-130 M1	
cis-1,2-Dichloroethene	ug/L	ND	20	23.8	119	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	23.6	118	70-130	
Dibromochloromethane	ug/L	ND	20	21.8	109	70-130	
Dibromomethane	ug/L	ND	20	23.4	117	70-130	
Dichlorodifluoromethane	ug/L	ND	20	29.2	146	70-130 M1	
Diisopropyl ether	ug/L	ND	20	23.5	118	70-130	
Ethylbenzene	ug/L	ND	20	23.6	118	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	24.4	122	70-130	
m&p-Xylene	ug/L	ND	40	46.4	116	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.9	110	70-130	
Methylene Chloride	ug/L	ND	20	24.5	122	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE: 1994184

Parameter	Units	92339289001 Result	Spike	MS	MS	% Rec	Qualifiers
			Conc.	Result	% Rec	Limits	
Naphthalene	ug/L	ND	20	21.2	106	70-130	
o-Xylene	ug/L	ND	20	22.6	113	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.1	110	70-130	
Styrene	ug/L	ND	20	22.7	114	70-130	
Tetrachloroethene	ug/L	ND	20	22.9	114	70-130	
Toluene	ug/L	ND	20	23.2	116	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	25.9	129	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.7	109	70-130	
Trichloroethene	ug/L	ND	20	23.5	117	69-151	
Trichlorofluoromethane	ug/L	ND	20	26.7	134	70-130	M1
Vinyl acetate	ug/L	ND	40	42.7	107	70-130	
Vinyl chloride	ug/L	ND	20	27.1	136	70-130	M1
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1994185

Parameter	Units	92339289002 Result	Dup	Max	Qualifiers
			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-Dichloropropene	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	
Benzene	ug/L	ND	ND	30	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

SAMPLE DUPLICATE: 1994185

Parameter	Units	92339289002 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	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)	%	110	103	6		
4-Bromofluorobenzene (S)	%	101	101	1		
Toluene-d8 (S)	%	107	108	0		

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch:	359493	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples:	92339162007		

METHOD BLANK: 1993794 Matrix: Water

Associated Lab Samples: 92339162007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/07/17 03:19	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/07/17 03:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/07/17 03:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/07/17 03:19	
1,1-Dichloroethane	ug/L	ND	1.0	05/07/17 03:19	
1,1-Dichloroethene	ug/L	ND	1.0	05/07/17 03:19	
1,1-Dichloropropene	ug/L	ND	1.0	05/07/17 03:19	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/07/17 03:19	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/07/17 03:19	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/07/17 03:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/07/17 03:19	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/07/17 03:19	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/07/17 03:19	
1,2-Dichloroethane	ug/L	ND	1.0	05/07/17 03:19	
1,2-Dichloropropane	ug/L	ND	1.0	05/07/17 03:19	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/07/17 03:19	
1,3-Dichloropropane	ug/L	ND	1.0	05/07/17 03:19	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/07/17 03:19	
2,2-Dichloropropane	ug/L	ND	1.0	05/07/17 03:19	
2-Butanone (MEK)	ug/L	ND	5.0	05/07/17 03:19	
2-Chlorotoluene	ug/L	ND	1.0	05/07/17 03:19	
2-Hexanone	ug/L	ND	5.0	05/07/17 03:19	
4-Chlorotoluene	ug/L	ND	1.0	05/07/17 03:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/07/17 03:19	
Acetone	ug/L	ND	25.0	05/07/17 03:19	
Benzene	ug/L	ND	1.0	05/07/17 03:19	
Bromobenzene	ug/L	ND	1.0	05/07/17 03:19	
Bromochloromethane	ug/L	ND	1.0	05/07/17 03:19	
Bromodichloromethane	ug/L	ND	1.0	05/07/17 03:19	
Bromoform	ug/L	ND	1.0	05/07/17 03:19	
Bromomethane	ug/L	ND	2.0	05/07/17 03:19	
Carbon tetrachloride	ug/L	ND	1.0	05/07/17 03:19	
Chlorobenzene	ug/L	ND	1.0	05/07/17 03:19	
Chloroethane	ug/L	ND	1.0	05/07/17 03:19	
Chloroform	ug/L	ND	1.0	05/07/17 03:19	
Chloromethane	ug/L	ND	1.0	05/07/17 03:19	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/07/17 03:19	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/07/17 03:19	
Dibromochloromethane	ug/L	ND	1.0	05/07/17 03:19	
Dibromomethane	ug/L	ND	1.0	05/07/17 03:19	
Dichlorodifluoromethane	ug/L	ND	1.0	05/07/17 03:19	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1993794

Matrix: Water

Associated Lab Samples: 92339162007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/07/17 03:19	
Ethylbenzene	ug/L	ND	1.0	05/07/17 03:19	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/07/17 03:19	
m&p-Xylene	ug/L	ND	2.0	05/07/17 03:19	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/07/17 03:19	
Methylene Chloride	ug/L	ND	2.0	05/07/17 03:19	
Naphthalene	ug/L	ND	1.0	05/07/17 03:19	
o-Xylene	ug/L	ND	1.0	05/07/17 03:19	
p-Isopropyltoluene	ug/L	ND	1.0	05/07/17 03:19	
Styrene	ug/L	ND	1.0	05/07/17 03:19	
Tetrachloroethene	ug/L	ND	1.0	05/07/17 03:19	
Toluene	ug/L	ND	1.0	05/07/17 03:19	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/07/17 03:19	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/07/17 03:19	
Trichloroethene	ug/L	ND	1.0	05/07/17 03:19	
Trichlorofluoromethane	ug/L	ND	1.0	05/07/17 03:19	
Vinyl acetate	ug/L	ND	2.0	05/07/17 03:19	
Vinyl chloride	ug/L	ND	1.0	05/07/17 03:19	
Xylene (Total)	ug/L	ND	1.0	05/07/17 03:19	
1,2-Dichloroethane-d4 (S)	%	107	70-130	05/07/17 03:19	
4-Bromofluorobenzene (S)	%	101	70-130	05/07/17 03:19	
Toluene-d8 (S)	%	106	70-130	05/07/17 03:19	

LABORATORY CONTROL SAMPLE: 1993795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.7	97	70-130	
1,1,1-Trichloroethane	ug/L	50	44.9	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.3	97	70-130	
1,1,2-Trichloroethane	ug/L	50	49.4	99	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	49.7	99	70-132	
1,1-Dichloropropene	ug/L	50	49.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	70-135	
1,2,3-Trichloropropane	ug/L	50	46.5	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.6	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	47.3	95	70-130	
1,2-Dichloroethane	ug/L	50	46.9	94	70-130	
1,2-Dichloropropene	ug/L	50	50.0	100	70-130	
1,3-Dichlorobenzene	ug/L	50	45.6	91	70-130	
1,3-Dichloropropane	ug/L	50	52.7	105	70-130	
1,4-Dichlorobenzene	ug/L	50	44.3	89	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1993795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	42.9	86	58-145	
2-Butanone (MEK)	ug/L	100	100	100	70-145	
2-Chlorotoluene	ug/L	50	45.5	91	70-130	
2-Hexanone	ug/L	100	99.4	99	70-144	
4-Chlorotoluene	ug/L	50	44.6	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.4	94	70-140	
Acetone	ug/L	100	103	103	50-175	
Benzene	ug/L	50	50.5	101	70-130	
Bromobenzene	ug/L	50	46.0	92	70-130	
Bromochloromethane	ug/L	50	48.1	96	70-130	
Bromodichloromethane	ug/L	50	48.8	98	70-130	
Bromoform	ug/L	50	42.3	85	70-130	
Bromomethane	ug/L	50	48.2	96	54-130	
Carbon tetrachloride	ug/L	50	47.7	95	70-132	
Chlorobenzene	ug/L	50	47.4	95	70-130	
Chloroethane	ug/L	50	46.4	93	64-134	
Chloroform	ug/L	50	44.6	89	70-130	
Chloromethane	ug/L	50	48.1	96	64-130	
cis-1,2-Dichloroethene	ug/L	50	46.0	92	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.5	103	70-130	
Dibromochloromethane	ug/L	50	48.3	97	70-130	
Dibromomethane	ug/L	50	48.6	97	70-131	
Dichlorodifluoromethane	ug/L	50	52.9	106	56-130	
Diisopropyl ether	ug/L	50	50.4	101	70-130	
Ethylbenzene	ug/L	50	47.5	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	92.2	92	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Methylene Chloride	ug/L	50	51.2	102	63-130	
Naphthalene	ug/L	50	48.5	97	70-138	
o-Xylene	ug/L	50	45.6	91	70-130	
p-Isopropyltoluene	ug/L	50	45.3	91	70-130	
Styrene	ug/L	50	46.9	94	70-130	
Tetrachloroethene	ug/L	50	46.3	93	70-130	
Toluene	ug/L	50	45.9	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.2	90	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	70-132	
Trichloroethene	ug/L	50	47.5	95	70-130	
Trichlorofluoromethane	ug/L	50	48.4	97	62-133	
Vinyl acetate	ug/L	100	100	100	66-157	
Vinyl chloride	ug/L	50	48.3	97	50-150	
Xylene (Total)	ug/L	150	138	92	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE:	1993796						
Parameter	Units	92339535007	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.6	98	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.4	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.3	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.3	96	70-130	
1,1-Dichloroethane	ug/L	ND	20	21.4	107	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.4	117	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.1	115	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.8	104	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	19.8	99	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.1	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.0	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	19.2	96	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.9	105	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.4	107	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	18.4	92	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.5	102	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	18.5	93	70-130	
2,2-Dichloropropane	ug/L	ND	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	ND	40	45.5	114	70-130	
2-Chlorotoluene	ug/L	ND	20	20.1	101	70-130	
2-Hexanone	ug/L	ND	40	45.0	112	70-130	
4-Chlorotoluene	ug/L	ND	20	19.1	96	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.6	96	70-130	
Acetone	ug/L	13.6J	40	67.1	134	70-130 M1	
Benzene	ug/L	ND	20	20.8	104	70-148	
Bromobenzene	ug/L	ND	20	19.2	96	70-130	
Bromochloromethane	ug/L	ND	20	22.2	111	70-130	
Bromodichloromethane	ug/L	ND	20	20.0	100	70-130	
Bromoform	ug/L	ND	20	18.8	94	70-130	
Bromomethane	ug/L	ND	20	24.3	122	70-130	
Carbon tetrachloride	ug/L	ND	20	21.2	106	70-130	
Chlorobenzene	ug/L	ND	20	20.1	100	70-146	
Chloroethane	ug/L	ND	20	22.8	114	70-130	
Chloroform	ug/L	ND	20	21.1	105	70-130	
Chloromethane	ug/L	ND	20	25.0	125	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	21.8	109	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.1	101	70-130	
Dibromochloromethane	ug/L	ND	20	20.1	100	70-130	
Dibromomethane	ug/L	ND	20	19.9	99	70-130	
Dichlorodifluoromethane	ug/L	ND	20	26.3	131	70-130 M1	
Diisopropyl ether	ug/L	ND	20	22.1	110	70-130	
Ethylbenzene	ug/L	ND	20	20.5	103	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.9	110	70-130	
m&p-Xylene	ug/L	ND	40	40.6	101	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.3	107	70-130	
Methylene Chloride	ug/L	ND	20	21.8	109	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE: 1993796

Parameter	Units	92339535007		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
		Result						
Naphthalene	ug/L	ND		20	21.0	105	70-130	
o-Xylene	ug/L	ND		20	20.1	101	70-130	
p-Isopropyltoluene	ug/L	ND		20	19.0	95	70-130	
Styrene	ug/L	ND		20	19.8	99	70-130	
Tetrachloroethene	ug/L	ND		20	19.4	97	70-130	
Toluene	ug/L	ND		20	19.7	99	70-155	
trans-1,2-Dichloroethene	ug/L	ND		20	22.9	114	70-130	
trans-1,3-Dichloropropene	ug/L	ND		20	19.8	99	70-130	
Trichloroethene	ug/L	ND		20	20.1	100	69-151	
Trichlorofluoromethane	ug/L	ND		20	23.4	117	70-130	
Vinyl acetate	ug/L	ND		40	36.9	92	70-130	
Vinyl chloride	ug/L	ND		20	24.2	121	70-130	
1,2-Dichloroethane-d4 (S)	%					111	70-130	
4-Bromofluorobenzene (S)	%					104	70-130	
Toluene-d8 (S)	%					99	70-130	

SAMPLE DUPLICATE: 1993797

Parameter	Units	92339535016		Dup RPD	Max RPD	Qualifiers
		Result				
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-Dichloropropene	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	12.4J		34.2	30	
Benzene	ug/L	ND		ND	30	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

SAMPLE DUPLICATE: 1993797

Parameter	Units	92339535016 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	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)	%	102	108	6		
4-Bromofluorobenzene (S)	%	105	100	4		
Toluene-d8 (S)	%	112	108	4		

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch: 359596 Analysis Method: EPA 8260

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

Associated Lab Samples: 92339162001, 92339162004, 92339162016, 92339162018, 92339162021, 92339162022, 92339162024,
92339162025, 92339162027

METHOD BLANK: 1994333 Matrix: Water

Associated Lab Samples: 92339162001, 92339162004, 92339162016, 92339162018, 92339162021, 92339162022, 92339162024,
92339162025, 92339162027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/08/17 15:52	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/08/17 15:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/08/17 15:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/08/17 15:52	
1,1-Dichloroethane	ug/L	ND	1.0	05/08/17 15:52	
1,1-Dichloroethene	ug/L	ND	1.0	05/08/17 15:52	
1,1-Dichloropropene	ug/L	ND	1.0	05/08/17 15:52	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/08/17 15:52	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/08/17 15:52	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/08/17 15:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/08/17 15:52	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/08/17 15:52	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/08/17 15:52	
1,2-Dichloroethane	ug/L	ND	1.0	05/08/17 15:52	
1,2-Dichloropropane	ug/L	ND	1.0	05/08/17 15:52	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/08/17 15:52	
1,3-Dichloropropane	ug/L	ND	1.0	05/08/17 15:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/08/17 15:52	
2,2-Dichloropropane	ug/L	ND	1.0	05/08/17 15:52	
2-Butanone (MEK)	ug/L	ND	5.0	05/08/17 15:52	
2-Chlorotoluene	ug/L	ND	1.0	05/08/17 15:52	
2-Hexanone	ug/L	ND	5.0	05/08/17 15:52	
4-Chlorotoluene	ug/L	ND	1.0	05/08/17 15:52	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/08/17 15:52	
Acetone	ug/L	ND	25.0	05/08/17 15:52	
Benzene	ug/L	ND	1.0	05/08/17 15:52	
Bromobenzene	ug/L	ND	1.0	05/08/17 15:52	
Bromochloromethane	ug/L	ND	1.0	05/08/17 15:52	
Bromodichloromethane	ug/L	ND	1.0	05/08/17 15:52	
Bromoform	ug/L	ND	1.0	05/08/17 15:52	
Bromomethane	ug/L	ND	2.0	05/08/17 15:52	
Carbon tetrachloride	ug/L	ND	1.0	05/08/17 15:52	
Chlorobenzene	ug/L	ND	1.0	05/08/17 15:52	
Chloroethane	ug/L	ND	1.0	05/08/17 15:52	
Chloroform	ug/L	ND	1.0	05/08/17 15:52	
Chloromethane	ug/L	ND	1.0	05/08/17 15:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/08/17 15:52	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/08/17 15:52	
Dibromochloromethane	ug/L	ND	1.0	05/08/17 15:52	
Dibromomethane	ug/L	ND	1.0	05/08/17 15:52	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1994333

Matrix: Water

Associated Lab Samples: 92339162001, 92339162004, 92339162016, 92339162018, 92339162021, 92339162022, 92339162024,
92339162025, 92339162027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	05/08/17 15:52	
Diisopropyl ether	ug/L	ND	1.0	05/08/17 15:52	
Ethylbenzene	ug/L	ND	1.0	05/08/17 15:52	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/08/17 15:52	
m&p-Xylene	ug/L	ND	2.0	05/08/17 15:52	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/08/17 15:52	
Methylene Chloride	ug/L	ND	2.0	05/08/17 15:52	
Naphthalene	ug/L	ND	1.0	05/08/17 15:52	
o-Xylene	ug/L	ND	1.0	05/08/17 15:52	
p-Isopropyltoluene	ug/L	ND	1.0	05/08/17 15:52	
Styrene	ug/L	ND	1.0	05/08/17 15:52	
Tetrachloroethene	ug/L	ND	1.0	05/08/17 15:52	
Toluene	ug/L	ND	1.0	05/08/17 15:52	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/08/17 15:52	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/08/17 15:52	
Trichloroethene	ug/L	ND	1.0	05/08/17 15:52	
Trichlorofluoromethane	ug/L	ND	1.0	05/08/17 15:52	
Vinyl acetate	ug/L	ND	2.0	05/08/17 15:52	
Vinyl chloride	ug/L	ND	1.0	05/08/17 15:52	
Xylene (Total)	ug/L	ND	1.0	05/08/17 15:52	
1,2-Dichloroethane-d4 (S)	%	99	70-130	05/08/17 15:52	
4-Bromofluorobenzene (S)	%	105	70-130	05/08/17 15:52	
Toluene-d8 (S)	%	109	70-130	05/08/17 15:52	

LABORATORY CONTROL SAMPLE: 1994334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	70-130	
1,1,1-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.6	95	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethene	ug/L	50	52.9	106	70-132	
1,1-Dichloropropene	ug/L	50	54.6	109	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.0	104	70-135	
1,2,3-Trichloropropane	ug/L	50	46.8	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.6	101	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	45.9	92	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	70-130	
1,2-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,2-Dichloroethane	ug/L	50	47.9	96	70-130	
1,2-Dichloropropane	ug/L	50	52.8	106	70-130	
1,3-Dichlorobenzene	ug/L	50	46.4	93	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1994334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	52.2	104	70-130	
1,4-Dichlorobenzene	ug/L	50	45.1	90	70-130	
2,2-Dichloropropane	ug/L	50	51.6	103	58-145	
2-Butanone (MEK)	ug/L	100	119	119	70-145	
2-Chlorotoluene	ug/L	50	45.7	91	70-130	
2-Hexanone	ug/L	100	102	102	70-144	
4-Chlorotoluene	ug/L	50	45.5	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.6	100	70-140	
Acetone	ug/L	100	136	136	50-175	
Benzene	ug/L	50	53.1	106	70-130	
Bromobenzene	ug/L	50	46.7	93	70-130	
Bromochloromethane	ug/L	50	50.7	101	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	41.6	83	70-130	
Bromomethane	ug/L	50	60.9	122	54-130	
Carbon tetrachloride	ug/L	50	51.4	103	70-132	
Chlorobenzene	ug/L	50	46.8	94	70-130	
Chloroethane	ug/L	50	51.6	103	64-134	
Chloroform	ug/L	50	49.5	99	70-130	
Chloromethane	ug/L	50	59.7	119	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	70-130	
Dibromochloromethane	ug/L	50	47.9	96	70-130	
Dibromomethane	ug/L	50	49.7	99	70-131	
Dichlorodifluoromethane	ug/L	50	60.8	122	56-130	
Diisopropyl ether	ug/L	50	53.1	106	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.6	107	70-130	
m&p-Xylene	ug/L	100	93.2	93	70-130	
Methyl-tert-butyl ether	ug/L	50	53.8	108	70-130	
Methylene Chloride	ug/L	50	56.0	112	63-130	
Naphthalene	ug/L	50	49.0	98	70-138	
o-Xylene	ug/L	50	45.1	90	70-130	
p-Isopropyltoluene	ug/L	50	47.7	95	70-130	
Styrene	ug/L	50	47.2	94	70-130	
Tetrachloroethene	ug/L	50	47.5	95	70-130	
Toluene	ug/L	50	48.8	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.7	105	70-132	
Trichloroethene	ug/L	50	52.6	105	70-130	
Trichlorofluoromethane	ug/L	50	50.8	102	62-133	
Vinyl acetate	ug/L	100	107	107	66-157	
Vinyl chloride	ug/L	50	54.3	109	50-150	
Xylene (Total)	ug/L	150	138	92	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE:	1994802						
Parameter	Units	92339162016	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.5	103	70-130	
1,1,1-Trichloroethane	ug/L	1.0	20	24.2	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.5	108	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	22.1	110	70-130	
1,1-Dichloroethane	ug/L	10.4	20	32.4	110	70-130	
1,1-Dichloroethene	ug/L	88.9	20	99.2	51	70-166 M1	
1,1-Dichloropropene	ug/L	ND	20	23.7	118	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.9	114	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.2	106	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.2	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	22.4	112	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.8	114	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.3	106	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.5	112	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.1	110	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	20.4	102	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.3	112	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.8	104	70-130	
2,2-Dichloropropane	ug/L	ND	20	24.2	121	70-130	
2-Butanone (MEK)	ug/L	ND	40	45.7	114	70-130	
2-Chlorotoluene	ug/L	ND	20	21.6	108	70-130	
2-Hexanone	ug/L	ND	40	49.3	123	70-130	
4-Chlorotoluene	ug/L	ND	20	21.2	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	44.5	111	70-130	
Acetone	ug/L	ND	40	55.6	139	70-130 M1	
Benzene	ug/L	ND	20	23.2	116	70-148	
Bromobenzene	ug/L	ND	20	21.7	109	70-130	
Bromochloromethane	ug/L	ND	20	22.4	112	70-130	
Bromodichloromethane	ug/L	ND	20	21.5	108	70-130	
Bromoform	ug/L	ND	20	20.9	105	70-130	
Bromomethane	ug/L	ND	20	29.6	148	70-130 M1	
Carbon tetrachloride	ug/L	ND	20	23.5	117	70-130	
Chlorobenzene	ug/L	ND	20	22.4	112	70-146	
Chloroethane	ug/L	ND	20	23.5	118	70-130	
Chloroform	ug/L	ND	20	21.8	109	70-130	
Chloromethane	ug/L	ND	20	28.3	141	70-130 M1	
cis-1,2-Dichloroethene	ug/L	ND	20	23.2	116	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	22.9	115	70-130	
Dibromochloromethane	ug/L	ND	20	21.4	107	70-130	
Dibromomethane	ug/L	ND	20	22.4	112	70-130	
Dichlorodifluoromethane	ug/L	ND	20	27.1	135	70-130 M1	
Diisopropyl ether	ug/L	ND	20	23.1	115	70-130	
Ethylbenzene	ug/L	ND	20	22.3	112	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	23.9	120	70-130	
m&p-Xylene	ug/L	ND	40	44.0	110	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.6	113	70-130	
Methylene Chloride	ug/L	ND	20	23.8	119	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE:	1994802						
Parameter	Units	92339162016	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.0	110	70-130	
o-Xylene	ug/L	ND	20	21.7	108	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.6	108	70-130	
Styrene	ug/L	ND	20	21.7	109	70-130	
Tetrachloroethene	ug/L	ND	20	21.5	108	70-130	
Toluene	ug/L	ND	20	22.1	111	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.3	112	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	22.0	110	70-130	
Trichloroethene	ug/L	ND	20	23.5	116	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.1	115	70-130	
Vinyl acetate	ug/L	ND	40	45.7	114	70-130	
Vinyl chloride	ug/L	ND	20	25.3	127	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1994336

Parameter	Units	92339162027	Dup Result	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	30	
1,1,1-Trichloroethane	ug/L	31.3	33.7	7	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	741	692	7	30
1,1-Dichloroethene	ug/L	1320	1190	10	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-Dichloropropene	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	
Benzene	ug/L	ND	ND	30	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

SAMPLE DUPLICATE: 1994336

Parameter	Units	92339162027 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	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	24.6	25.6	4	30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	8.3J		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)	%	106	105	2		
4-Bromofluorobenzene (S)	%	103	105	2		
Toluene-d8 (S)	%	109	109	0		

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch:	359680	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples: 92339162015			

METHOD BLANK: 1994646	Matrix: Water
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Associated Lab Samples: 92339162015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/09/17 12:47	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/09/17 12:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/09/17 12:47	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/09/17 12:47	
1,1-Dichloroethane	ug/L	ND	1.0	05/09/17 12:47	
1,1-Dichloroethene	ug/L	ND	1.0	05/09/17 12:47	
1,1-Dichloropropene	ug/L	ND	1.0	05/09/17 12:47	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/09/17 12:47	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/09/17 12:47	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/09/17 12:47	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/09/17 12:47	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/09/17 12:47	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/09/17 12:47	
1,2-Dichloroethane	ug/L	ND	1.0	05/09/17 12:47	
1,2-Dichloropropane	ug/L	ND	1.0	05/09/17 12:47	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/09/17 12:47	
1,3-Dichloropropane	ug/L	ND	1.0	05/09/17 12:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/09/17 12:47	
2,2-Dichloropropane	ug/L	ND	1.0	05/09/17 12:47	
2-Butanone (MEK)	ug/L	ND	5.0	05/09/17 12:47	
2-Chlorotoluene	ug/L	ND	1.0	05/09/17 12:47	
2-Hexanone	ug/L	ND	5.0	05/09/17 12:47	
4-Chlorotoluene	ug/L	ND	1.0	05/09/17 12:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/09/17 12:47	
Acetone	ug/L	ND	25.0	05/09/17 12:47	
Benzene	ug/L	ND	1.0	05/09/17 12:47	
Bromobenzene	ug/L	ND	1.0	05/09/17 12:47	
Bromochloromethane	ug/L	ND	1.0	05/09/17 12:47	
Bromodichloromethane	ug/L	ND	1.0	05/09/17 12:47	
Bromoform	ug/L	ND	1.0	05/09/17 12:47	
Bromomethane	ug/L	ND	2.0	05/09/17 12:47	
Carbon tetrachloride	ug/L	ND	1.0	05/09/17 12:47	
Chlorobenzene	ug/L	ND	1.0	05/09/17 12:47	
Chloroethane	ug/L	ND	1.0	05/09/17 12:47	
Chloroform	ug/L	ND	1.0	05/09/17 12:47	
Chloromethane	ug/L	ND	1.0	05/09/17 12:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/09/17 12:47	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/09/17 12:47	
Dibromochloromethane	ug/L	ND	1.0	05/09/17 12:47	
Dibromomethane	ug/L	ND	1.0	05/09/17 12:47	
Dichlorodifluoromethane	ug/L	ND	1.0	05/09/17 12:47	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1994646

Matrix: Water

Associated Lab Samples: 92339162015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/09/17 12:47	
Ethylbenzene	ug/L	ND	1.0	05/09/17 12:47	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/09/17 12:47	
m&p-Xylene	ug/L	ND	2.0	05/09/17 12:47	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/09/17 12:47	
Methylene Chloride	ug/L	ND	2.0	05/09/17 12:47	
Naphthalene	ug/L	ND	1.0	05/09/17 12:47	
o-Xylene	ug/L	ND	1.0	05/09/17 12:47	
p-Isopropyltoluene	ug/L	ND	1.0	05/09/17 12:47	
Styrene	ug/L	ND	1.0	05/09/17 12:47	
Tetrachloroethene	ug/L	ND	1.0	05/09/17 12:47	
Toluene	ug/L	ND	1.0	05/09/17 12:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/09/17 12:47	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/09/17 12:47	
Trichloroethene	ug/L	ND	1.0	05/09/17 12:47	
Trichlorofluoromethane	ug/L	ND	1.0	05/09/17 12:47	
Vinyl acetate	ug/L	ND	2.0	05/09/17 12:47	
Vinyl chloride	ug/L	ND	1.0	05/09/17 12:47	
Xylene (Total)	ug/L	ND	1.0	05/09/17 12:47	
1,2-Dichloroethane-d4 (S)	%	104	70-130	05/09/17 12:47	
4-Bromofluorobenzene (S)	%	104	70-130	05/09/17 12:47	
Toluene-d8 (S)	%	108	70-130	05/09/17 12:47	

LABORATORY CONTROL SAMPLE: 1994647

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	49.5	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.7	97	70-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	49.6	99	70-130	
1,1-Dichloroethene	ug/L	50	53.7	107	70-132	
1,1-Dichloropropene	ug/L	50	54.0	108	70-130	
1,2,3-Trichlorobenzene	ug/L	50	51.9	104	70-135	
1,2,3-Trichloropropane	ug/L	50	50.6	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.3	101	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	70-130	
1,2-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,2-Dichloroethane	ug/L	50	46.1	92	70-130	
1,2-Dichloropropene	ug/L	50	51.9	104	70-130	
1,3-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,3-Dichloropropane	ug/L	50	52.1	104	70-130	
1,4-Dichlorobenzene	ug/L	50	46.5	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1994647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	51.7	103	58-145	
2-Butanone (MEK)	ug/L	100	121	121	70-145	
2-Chlorotoluene	ug/L	50	47.3	95	70-130	
2-Hexanone	ug/L	100	110	110	70-144	
4-Chlorotoluene	ug/L	50	46.7	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	70-140	
Acetone	ug/L	100	149	149	50-175	
Benzene	ug/L	50	53.5	107	70-130	
Bromobenzene	ug/L	50	48.0	96	70-130	
Bromochloromethane	ug/L	50	50.8	102	70-130	
Bromodichloromethane	ug/L	50	50.6	101	70-130	
Bromoform	ug/L	50	43.9	88	70-130	
Bromomethane	ug/L	50	60.2	120	54-130	
Carbon tetrachloride	ug/L	50	53.7	107	70-132	
Chlorobenzene	ug/L	50	49.3	99	70-130	
Chloroethane	ug/L	50	47.5	95	64-134	
Chloroform	ug/L	50	50.3	101	70-130	
Chloromethane	ug/L	50	57.3	115	64-130	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.3	111	70-130	
Dibromochloromethane	ug/L	50	49.8	100	70-130	
Dibromomethane	ug/L	50	50.7	101	70-131	
Dichlorodifluoromethane	ug/L	50	55.2	110	56-130	
Diisopropyl ether	ug/L	50	53.7	107	70-130	
Ethylbenzene	ug/L	50	48.8	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.4	109	70-130	
m&p-Xylene	ug/L	100	96.5	97	70-130	
Methyl-tert-butyl ether	ug/L	50	52.9	106	70-130	
Methylene Chloride	ug/L	50	55.1	110	63-130	
Naphthalene	ug/L	50	49.8	100	70-138	
o-Xylene	ug/L	50	46.8	94	70-130	
p-Isopropyltoluene	ug/L	50	49.6	99	70-130	
Styrene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	48.3	97	70-130	
Toluene	ug/L	50	49.4	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	70-132	
Trichloroethene	ug/L	50	51.2	102	70-130	
Trichlorofluoromethane	ug/L	50	49.3	99	62-133	
Vinyl acetate	ug/L	100	106	106	66-157	
Vinyl chloride	ug/L	50	51.3	103	50-150	
Xylene (Total)	ug/L	150	143	96	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

MATRIX SPIKE SAMPLE:	1994788						
Parameter	Units	92338972002	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	400	398	99	70-130	
1,1,1-Trichloroethane	ug/L	ND	400	444	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	399	100	70-130	
1,1,2-Trichloroethane	ug/L	ND	400	423	106	70-130	
1,1-Dichloroethane	ug/L	ND	400	459	115	70-130	
1,1-Dichloroethene	ug/L	ND	400	504	126	70-166	
1,1-Dichloropropene	ug/L	ND	400	496	124	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	400	423	106	70-130	
1,2,3-Trichloropropane	ug/L	ND	400	397	99	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	400	390	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	343	86	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	400	420	105	70-130	
1,2-Dichlorobenzene	ug/L	ND	400	389	97	70-130	
1,2-Dichloroethane	ug/L	ND	400	433	108	70-130	
1,2-Dichloropropane	ug/L	ND	400	448	112	70-130	
1,3-Dichlorobenzene	ug/L	ND	400	399	100	70-130	
1,3-Dichloropropane	ug/L	ND	400	437	109	70-130	
1,4-Dichlorobenzene	ug/L	ND	400	388	97	70-130	
2,2-Dichloropropane	ug/L	ND	400	424	106	70-130	
2-Butanone (MEK)	ug/L	ND	800	893	112	70-130	
2-Chlorotoluene	ug/L	ND	400	413	103	70-130	
2-Hexanone	ug/L	ND	800	782	98	70-130	
4-Chlorotoluene	ug/L	ND	400	399	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	800	810	101	70-130	
Acetone	ug/L	ND	800	833	104	70-130	
Benzene	ug/L	ND	400	460	115	70-148	
Bromobenzene	ug/L	ND	400	420	105	70-130	
Bromochloromethane	ug/L	ND	400	454	113	70-130	
Bromodichloromethane	ug/L	ND	400	438	110	70-130	
Bromoform	ug/L	ND	400	375	94	70-130	
Bromomethane	ug/L	ND	400	540	135	70-130 M1	
Carbon tetrachloride	ug/L	ND	400	455	114	70-130	
Chlorobenzene	ug/L	ND	400	416	104	70-146	
Chloroethane	ug/L	ND	400	468	117	70-130	
Chloroform	ug/L	ND	400	438	109	70-130	
Chloromethane	ug/L	ND	400	579	145	70-130 M1	
cis-1,2-Dichloroethene	ug/L	ND	400	460	115	70-130	
cis-1,3-Dichloropropene	ug/L	ND	400	445	111	70-130	
Dibromochloromethane	ug/L	ND	400	406	101	70-130	
Dibromomethane	ug/L	ND	400	445	111	70-130	
Dichlorodifluoromethane	ug/L	ND	400	524	131	70-130 M1	
Diisopropyl ether	ug/L	ND	400	455	114	70-130	
Ethylbenzene	ug/L	ND	400	435	109	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	400	420	105	70-130	
m&p-Xylene	ug/L	ND	800	860	108	70-130	
Methyl-tert-butyl ether	ug/L	ND	400	461	115	70-130	
Methylene Chloride	ug/L	ND	400	513	128	70-130	

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REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

MATRIX SPIKE SAMPLE: 1994788

Parameter	Units	92338972002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	400	388	97	70-130	
o-Xylene	ug/L	ND	400	416	104	70-130	
p-Isopropyltoluene	ug/L	ND	400	405	101	70-130	
Styrene	ug/L	ND	400	407	102	70-130	
Tetrachloroethene	ug/L	ND	400	412	103	70-130	
Toluene	ug/L	ND	400	433	108	70-155	
trans-1,2-Dichloroethene	ug/L	ND	400	460	115	70-130	
trans-1,3-Dichloropropene	ug/L	ND	400	411	103	70-130	
Trichloroethene	ug/L	ND	400	466	116	69-151	
Trichlorofluoromethane	ug/L	ND	400	474	118	70-130	
Vinyl acetate	ug/L	ND	800	880	110	70-130	
Vinyl chloride	ug/L	ND	400	520	130	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1995717

Parameter	Units	92339162015 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	2.3	2.2	3	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	6.9	7.0	1	30	
1,1-Dichloroethene	ug/L	111	117	6	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	1.4	1.4	1	30	
1,2-Dichloropropene	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	
Benzene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

SAMPLE DUPLICATE: 1995717

Parameter	Units	92339162015 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	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	.51J		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)	%	104	108	4		
4-Bromofluorobenzene (S)	%	102	106	4		
Toluene-d8 (S)	%	111	109	2		

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch:	359896	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples:	92339162026		

METHOD BLANK: 1995864 Matrix: Water

Associated Lab Samples: 92339162026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/10/17 11:48	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/10/17 11:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/10/17 11:48	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/10/17 11:48	
1,1-Dichloroethane	ug/L	ND	1.0	05/10/17 11:48	
1,1-Dichloroethene	ug/L	ND	1.0	05/10/17 11:48	
1,1-Dichloropropene	ug/L	ND	1.0	05/10/17 11:48	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/10/17 11:48	
1,2,3-Trichloropropane	ug/L	ND	1.0	05/10/17 11:48	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/10/17 11:48	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	05/10/17 11:48	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/10/17 11:48	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/10/17 11:48	
1,2-Dichloroethane	ug/L	ND	1.0	05/10/17 11:48	
1,2-Dichloropropane	ug/L	ND	1.0	05/10/17 11:48	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/10/17 11:48	
1,3-Dichloropropane	ug/L	ND	1.0	05/10/17 11:48	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/10/17 11:48	
2,2-Dichloropropane	ug/L	ND	1.0	05/10/17 11:48	
2-Butanone (MEK)	ug/L	ND	5.0	05/10/17 11:48	
2-Chlorotoluene	ug/L	ND	1.0	05/10/17 11:48	
2-Hexanone	ug/L	ND	5.0	05/10/17 11:48	
4-Chlorotoluene	ug/L	ND	1.0	05/10/17 11:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/10/17 11:48	
Acetone	ug/L	ND	25.0	05/10/17 11:48	
Benzene	ug/L	ND	1.0	05/10/17 11:48	
Bromobenzene	ug/L	ND	1.0	05/10/17 11:48	
Bromochloromethane	ug/L	ND	1.0	05/10/17 11:48	
Bromodichloromethane	ug/L	ND	1.0	05/10/17 11:48	
Bromoform	ug/L	ND	1.0	05/10/17 11:48	
Bromomethane	ug/L	ND	2.0	05/10/17 11:48	
Carbon tetrachloride	ug/L	ND	1.0	05/10/17 11:48	
Chlorobenzene	ug/L	ND	1.0	05/10/17 11:48	
Chloroethane	ug/L	ND	1.0	05/10/17 11:48	
Chloroform	ug/L	ND	1.0	05/10/17 11:48	
Chloromethane	ug/L	ND	1.0	05/10/17 11:48	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/10/17 11:48	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/10/17 11:48	
Dibromochloromethane	ug/L	ND	1.0	05/10/17 11:48	
Dibromomethane	ug/L	ND	1.0	05/10/17 11:48	
Dichlorodifluoromethane	ug/L	ND	1.0	05/10/17 11:48	

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

METHOD BLANK: 1995864

Matrix: Water

Associated Lab Samples: 92339162026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	05/10/17 11:48	
Ethylbenzene	ug/L	ND	1.0	05/10/17 11:48	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/10/17 11:48	
m&p-Xylene	ug/L	ND	2.0	05/10/17 11:48	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/10/17 11:48	
Methylene Chloride	ug/L	ND	2.0	05/10/17 11:48	
Naphthalene	ug/L	ND	1.0	05/10/17 11:48	
o-Xylene	ug/L	ND	1.0	05/10/17 11:48	
p-Isopropyltoluene	ug/L	ND	1.0	05/10/17 11:48	
Styrene	ug/L	ND	1.0	05/10/17 11:48	
Tetrachloroethene	ug/L	ND	1.0	05/10/17 11:48	
Toluene	ug/L	ND	1.0	05/10/17 11:48	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/10/17 11:48	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/10/17 11:48	
Trichloroethene	ug/L	ND	1.0	05/10/17 11:48	
Trichlorofluoromethane	ug/L	ND	1.0	05/10/17 11:48	
Vinyl acetate	ug/L	ND	2.0	05/10/17 11:48	
Vinyl chloride	ug/L	ND	1.0	05/10/17 11:48	
Xylene (Total)	ug/L	ND	1.0	05/10/17 11:48	
1,2-Dichloroethane-d4 (S)	%	99	70-130	05/10/17 11:48	
4-Bromofluorobenzene (S)	%	101	70-130	05/10/17 11:48	
Toluene-d8 (S)	%	111	70-130	05/10/17 11:48	

LABORATORY CONTROL SAMPLE: 1995865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.4	101	70-130	
1,1,1-Trichloroethane	ug/L	50	47.4	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.4	99	70-130	
1,1,2-Trichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethene	ug/L	50	48.8	98	70-132	
1,1-Dichloropropene	ug/L	50	50.2	100	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.7	101	70-135	
1,2,3-Trichloropropane	ug/L	50	49.3	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	70-130	
1,2-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,2-Dichloroethane	ug/L	50	46.6	93	70-130	
1,2-Dichloropropene	ug/L	50	52.9	106	70-130	
1,3-Dichlorobenzene	ug/L	50	47.1	94	70-130	
1,3-Dichloropropane	ug/L	50	51.7	103	70-130	
1,4-Dichlorobenzene	ug/L	50	46.2	92	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

LABORATORY CONTROL SAMPLE: 1995865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	48.2	96	58-145	
2-Butanone (MEK)	ug/L	100	122	122	70-145	
2-Chlorotoluene	ug/L	50	46.6	93	70-130	
2-Hexanone	ug/L	100	111	111	70-144	
4-Chlorotoluene	ug/L	50	45.3	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-140	
Acetone	ug/L	100	145	145	50-175	
Benzene	ug/L	50	52.9	106	70-130	
Bromobenzene	ug/L	50	45.6	91	70-130	
Bromochloromethane	ug/L	50	50.0	100	70-130	
Bromodichloromethane	ug/L	50	50.9	102	70-130	
Bromoform	ug/L	50	41.5	83	70-130	
Bromomethane	ug/L	50	60.2	120	54-130	
Carbon tetrachloride	ug/L	50	50.4	101	70-132	
Chlorobenzene	ug/L	50	48.9	98	70-130	
Chloroethane	ug/L	50	45.6	91	64-134	
Chloroform	ug/L	50	47.7	95	70-130	
Chloromethane	ug/L	50	54.0	108	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	70-130	
Dibromochloromethane	ug/L	50	48.5	97	70-130	
Dibromomethane	ug/L	50	50.9	102	70-131	
Dichlorodifluoromethane	ug/L	50	56.1	112	56-130	
Diisopropyl ether	ug/L	50	53.8	108	70-130	
Ethylbenzene	ug/L	50	48.4	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.7	103	70-130	
m&p-Xylene	ug/L	100	94.9	95	70-130	
Methyl-tert-butyl ether	ug/L	50	53.0	106	70-130	
Methylene Chloride	ug/L	50	54.5	109	63-130	
Naphthalene	ug/L	50	49.5	99	70-138	
o-Xylene	ug/L	50	47.3	95	70-130	
p-Isopropyltoluene	ug/L	50	48.1	96	70-130	
Styrene	ug/L	50	48.3	97	70-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Toluene	ug/L	50	49.1	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.2	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.5	105	70-132	
Trichloroethene	ug/L	50	51.9	104	70-130	
Trichlorofluoromethane	ug/L	50	47.8	96	62-133	
Vinyl acetate	ug/L	100	107	107	66-157	
Vinyl chloride	ug/L	50	50.4	101	50-150	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			96	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch: 359219 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92339162001, 92339162002, 92339162003, 92339162004, 92339162005, 92339162006, 92339162007, 92339162008, 92339162009, 92339162010, 92339162011, 92339162012, 92339162013, 92339162014, 92339162015, 92339162016, 92339162017, 92339162018, 92339162019

METHOD BLANK: 1992345

Matrix: Water

Associated Lab Samples: 92339162001, 92339162002, 92339162003, 92339162004, 92339162005, 92339162006, 92339162007, 92339162008, 92339162009, 92339162010, 92339162011, 92339162012, 92339162013, 92339162014, 92339162015, 92339162016, 92339162017, 92339162018, 92339162019

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/04/17 14:08	
1,2-Dichloroethane-d4 (S)	%	98	50-150	05/04/17 14:08	
Toluene-d8 (S)	%	102	50-150	05/04/17 14:08	

LABORATORY CONTROL SAMPLE: 1992346

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
1,4-Dioxane (p-Dioxane)	ug/L	20	20.1	100	71-125	
1,2-Dichloroethane-d4 (S)	%			99	50-150	
Toluene-d8 (S)	%			102	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1992347 1992348

Parameter	Units	92339162003	MS	MSD	MS	MSD	% Rec	% Rec	RPD	RPD	Max
		Result	Spike	Spike							
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	23.0	22.8	108	107	50-150	1	30
1,2-Dichloroethane-d4 (S)	%						100	100	50-150		150
Toluene-d8 (S)	%						104	103	50-150		150

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch: 359223 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92339162021, 92339162022, 92339162023, 92339162024, 92339162025, 92339162026, 92339162027

METHOD BLANK: 1992373 Matrix: Water

Associated Lab Samples: 92339162021, 92339162022, 92339162023, 92339162024, 92339162025, 92339162026, 92339162027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/04/17 14:27	
1,2-Dichloroethane-d4 (S)	%	98	50-150	05/04/17 14:27	
Toluene-d8 (S)	%	102	50-150	05/04/17 14:27	

LABORATORY CONTROL SAMPLE: 1992374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.3	97	71-125	
1,2-Dichloroethane-d4 (S)	%			99	50-150	
Toluene-d8 (S)	%			103	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1992375 1992376

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
		92339162023	Spike Conc.	Spike Conc.	MS Result					RPD	RPD
1,4-Dioxane (p-Dioxane)	ug/L	20.8	20	20	37.0	40.0	81	96	50-150	8	30
1,2-Dichloroethane-d4 (S)	%						101	102	50-150		150
Toluene-d8 (S)	%						105	106	50-150		150

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QUALITY CONTROL DATA

Project: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

QC Batch: 359379 Analysis Method: EPA 8260B Mod.

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

Associated Lab Samples: 92339162020, 92339162028

METHOD BLANK: 1993070 Matrix: Water

Associated Lab Samples: 92339162020, 92339162028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	05/05/17 12:18	
1,2-Dichloroethane-d4 (S)	%	99	50-150	05/05/17 12:18	
Toluene-d8 (S)	%	107	50-150	05/05/17 12:18	

LABORATORY CONTROL SAMPLE: 1993071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.3	102	71-125	
1,2-Dichloroethane-d4 (S)	%			105	50-150	
Toluene-d8 (S)	%			107	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1993072 1993073

Parameter	Units	92339170010 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		
			Spike Conc.	Spike Conc.						RPD	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	16.7	17.9	83	90	50-150	7	30	
1,2-Dichloroethane-d4 (S)	%						99	98	50-150		150	
Toluene-d8 (S)	%						107	107	50-150		150	

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: 31400390-6 FORMER KOP FLEX

Pace Project No.: 92339162

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.

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.

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. |
| 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. |
| MS | Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92339162001	MW-23D-050117	EPA 8260	359596		
92339162002	MW-27D-050117	EPA 8260	359283		
92339162003	MW-03-050117	EPA 8260	359283		
92339162004	MW-43-050117	EPA 8260	359596		
92339162005	MW-38R-050117	EPA 8260	359283		
92339162006	MW-39-050117	EPA 8260	359283		
92339162007	MW-42-050117	EPA 8260	359493		
92339162008	MW-18-050117	EPA 8260	359283		
92339162009	MW-40D-050117	EPA 8260	359283		
92339162010	MW-5R-050117	EPA 8260	359283		
92339162011	RW-1S-050117	EPA 8260	359395		
92339162012	RW-2S-050117	EPA 8260	359395		
92339162013	RW-3S-050117	EPA 8260	359283		
92339162014	MW-44-050117	EPA 8260	359283		
92339162015	MW-21D-050117	EPA 8260	359680		
92339162016	RW-1D-050117	EPA 8260	359596		
92339162017	MW-41D-050117	EPA 8260	359429		
92339162018	RW-2D-050117	EPA 8260	359596		
92339162019	MW-1D-050117	EPA 8260	359430		
92339162020	MW-22-050217	EPA 8260	359429		
92339162021	MW-20-050217	EPA 8260	359596		
92339162022	MW-04-050217	EPA 8260	359596		
92339162023	MW-09-050217	EPA 8260	359429		
92339162024	MW-16D-050217	EPA 8260	359596		
92339162025	MW-100-050217	EPA 8260	359596		
92339162026	MW-16-050217	EPA 8260	359896		
92339162027	MW-200-050217	EPA 8260	359596		
92339162028	TRIP BLANK	EPA 8260	359429		
92339162001	MW-23D-050117	EPA 8260B Mod.	359219		
92339162002	MW-27D-050117	EPA 8260B Mod.	359219		
92339162003	MW-03-050117	EPA 8260B Mod.	359219		
92339162004	MW-43-050117	EPA 8260B Mod.	359219		
92339162005	MW-38R-050117	EPA 8260B Mod.	359219		
92339162006	MW-39-050117	EPA 8260B Mod.	359219		
92339162007	MW-42-050117	EPA 8260B Mod.	359219		
92339162008	MW-18-050117	EPA 8260B Mod.	359219		
92339162009	MW-40D-050117	EPA 8260B Mod.	359219		
92339162010	MW-5R-050117	EPA 8260B Mod.	359219		
92339162011	RW-1S-050117	EPA 8260B Mod.	359219		

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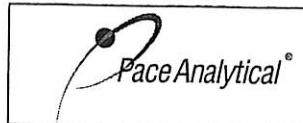
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 31400390-6 FORMER KOP FLEX
Pace Project No.: 92339162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92339162012	RW-2S-050117	EPA 8260B Mod.	359219		
92339162013	RW-3S-050117	EPA 8260B Mod.	359219		
92339162014	MW-44-050117	EPA 8260B Mod.	359219		
92339162015	MW-21D-050117	EPA 8260B Mod.	359219		
92339162016	RW-1D-050117	EPA 8260B Mod.	359219		
92339162017	MW-41D-050117	EPA 8260B Mod.	359219		
92339162018	RW-2D-050117	EPA 8260B Mod.	359219		
92339162019	MW-1D-050117	EPA 8260B Mod.	359219		
92339162020	MW-22-050217	EPA 8260B Mod.	359379		
92339162021	MW-20-050217	EPA 8260B Mod.	359223		
92339162022	MW-04-050217	EPA 8260B Mod.	359223		
92339162023	MW-09-050217	EPA 8260B Mod.	359223		
92339162024	MW-16D-050217	EPA 8260B Mod.	359223		
92339162025	MW-100-050217	EPA 8260B Mod.	359223		
92339162026	MW-16-050217	EPA 8260B Mod.	359223		
92339162027	MW-200-050217	EPA 8260B Mod.	359223		
92339162028	TRIP BLANK	EPA 8260B Mod.	359379		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: Sept. 21, 2016
Page 1 of 2
Issuing Authority:
Pace Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

WSP

Project

WO# : 92339162



92339162

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

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer:

IR Gun ID: *T1603*

Type of Ice:

Wet

Blue

None

Samples on ice, cooling process has begun

Correction Factor: Cooler Temp Corrected (°C): *5.1* Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to 6°C

USDA Regulated Soil (N/A, water sample)

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

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

Comments/Discrepancy:

Chain of Custody Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	5.
Correct Containers Used? -Pace Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Containers Intact?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	7.
Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9. <i>ONLY reviewed 6 TB's</i>
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted:

Comments/Sample Discrepancy:

Date/Time:

Project Manager SCURF Review:

JY

Date: *5/4/17*

Project Manager SRF Review:

JY

Date: *5/4/17*

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)

13



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: Sept. 21, 2016
 Page 2 of 2
 Issuing Authority:
 Pace Quality Office

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

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

Project #

WO# : 92339162

PM: KRG Due Date: 05/10/17
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)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGEU-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)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
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 #



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: Sept. 21, 2016
 Page 2 of 2
 Issuing Authority:
 Pace Quality Office

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

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

Project #

WO# : 92339162

PM: KRG Due Date: 05/10/17
 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)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 9)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
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 #



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: Sept. 21, 2016
 Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.01

Issuing Authority:
 Pace Quality Office

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

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

Project #

WO# : 92339162

PM: KRG

Due Date: 05/10/17

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)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	BP2T-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
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 #

CHAIN-OF-CUSTODY RECORD

Page 1 of 2

WSP Parsons Brinckerhoff Office Address 13530 Dulles Technology Dr., Herndon, VA, 20171		Sample # 300		Requested Analyses & Preservatives		No. 004513	WSP	PARSONS BRINCKERHOFF
Project Name <i>Form-K Flex</i>	WSP Parsons Brinckerhoff Contact Name <i>Eric Johnson</i>	Project Location <i>Herndon, VA</i>	WSP Parsons Brinckerhoff Contact E-mail <i>Eric.Johnson @wspgroup.com</i>	Project Number & Task <i>31400390 - 6</i>	WSP Parsons Brinckerhoff Contact Phone <i>703-709-6500</i>	Sampler(s) Name(s) <i>Matt Richardson</i>	Sampler(s) Signature(s) <i>Matt Richardson</i>	Laboratory Name & Location <i>Hunterston NC</i>
								Laboratory Project Manager <i>Kevin Geddes</i>
								Requested Turn-Around-Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> — HR
								Sample Comments <i>CO1 CO2 CO3 CO4 CO5 CO6 CO7 CO8 CO9 CO10 CO11 CO12 CO13 CO14 CO15</i>
Sample Identification		Matrix	Collection Start* Date	Collection Stop* Date	Number of Containers			
<i>MW-23D-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>0835</i>	<i>8260</i>			
<i>MW-27D-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>0900</i>	<i>8260</i>			
<i>MW-03-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>0920</i>	<i>1,4 DIOX SIM</i>			
<i>MW-43-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>0935</i>	<i>8260</i>			
<i>MW-38R-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>0950</i>	<i>8260</i>			
<i>MW-39-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1010</i>	<i>8260</i>			
<i>MW-42-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1030</i>	<i>8260</i>			
<i>MW-18-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1045</i>	<i>8260</i>			
<i>MW-40D-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1105</i>	<i>8260</i>			
<i>MW-5R-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1120</i>	<i>8260</i>			
<i>RW-15-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1325</i>	<i>8260</i>			
<i>RW-2S-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1340</i>	<i>8260</i>			
<i>RW-3S-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1400</i>	<i>8260</i>			
<i>MW-44-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1420</i>	<i>8260</i>			
<i>MW-21D-050117</i>		<i>Hg</i>	<i>5/1</i>	<i>1435</i>	<i>8260</i>			
Relinquished By (Signature) <i>Eric Johnson</i>	Date <i>5/1/17</i>	Time <i>1730</i>	Received By (Signature) <i>FedEx Express</i>	Date <i>5/1/17</i>	Time <i>1730</i>	Shipment Method Tracking Number(s)	Custody Seal Number(s) <i>B111 9584 3761</i>	
Requisitioned By (Signature)	Date	Time	Received By (Signature) <i>Billy Pace/HVAC</i>	Date <i>5/3/17</i>	Time <i>9:30</i>	Number of Packages <i>3</i>	Custody Seal Number(s) <i>3894 3895</i>	

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

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

CHAIN-OF-CUSTODY RECORD

Page 2 of 2

WSP | Parsons Brinckerhoff Office Address

Project Name: *Former HopFlex*
Project Location: *Hanover, MD*
Project Number & Task: *31400390-6*

WSP | Parsons Brinckerhoff Contact Name: *Eric Johnson*
WSP | Parsons Brinckerhoff Contact E-mail: *Eric.Johnson@wspgroup.com*

Sampler(s) Name(s): *Matt Richardson*
Sampler(s) Signature(s): *[Signature]*
Ros Wallace

Sample Identification:
Matrix: *AQ* **Collection Start:** *5/1 1450* **Collection Stop:** *5/1 1505*
Date: *5/1* **Time:** *1450* **Date:** *5/1* **Time:** *1505*
Number of Containers: *VOCs 8260*
8260 1,4 Diox SIM

Sample Comments:
014
017
018
019
020
021
022
023
024
025
026
027
028
Las Vegas

No. **004515** **WSP** **PARSONS
BRINCKERHOFF**

Laboratory Name & Location: *Huntersville, NC*

Laboratory Project Manager: *Kevin Godwin*

Requested Turn-Around-Time:

Standard 24 HR
 48 HR 72 HR
 —^{HR} *97339102*

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

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Requested Analyses & Preservatives									
Relinquished By (Signature):	Date:	Time:	Received By (Signature):	Date:	Time:	Shipment Method:	Tracking Number(s):		
<i>[Signature]</i>	<i>5/2/17</i>	<i>1730</i>	<i>FedEx Express</i>	<i>5/2/17</i>	<i>1730</i>	<i>FedEx Express</i>	<i>8111 9584 3761</i>		
Relinquished By (Signature):	Date:	Time:	Received By (Signature):	Date:	Time:	Number of Packages:	Custody Seal Number(s):		
								<i>3894, 3895</i>	

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

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