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Herndon, VA 20171
Main: 703-742-5700
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VIA ELECTRONIC MAIL

June 7, 2016

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

Re: Quarterly Status Report No. 9
Former Kop-Flex Facility Site, Hanover, Maryland

Dear Erich:

On behalf of EMERSUB 16 LLC, a subsidiary of Emerson Electric Co., WSP Corp. is submitting this status report describing the investigation and remediation activities conducted in the first quarter 2016 at and near the former Kop-Flex, Inc. facility property in Hanover, Maryland. The report also describes the activities planned for the second quarter 2016. If you have any questions, please do not hesitate to contact us at 703-709-6500.

Sincerely yours,

Robert E. Johnson, PhD.
Senior Technical Manager

REJ:kjb
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cc: Mr. Stephen Clarke, Emerson Electric Co. (Electronic copy only)
Ms. Richelle Hanson, Maryland Department of the Environment
Mr. Raymond Goins, Trammell Crow Company (Electronic copy only)

Progress Report No. 9

Former Kop-Flex Facility Site

January 2016 through March 2016

Site Name:	Former Kop-Flex Facility
Site Address:	7565 Harmans Road Hanover, Maryland 21076
Consultant:	WSP Corp.
Address:	13530 Dulles Technology Drive, Suite 300 Herndon, Virginia 20171
Phone No.:	(703) 709-6500
Site Coordinator:	Eric Johnson
Alternate:	Jim Bulman

1.0 Onsite Activities

The following activities were conducted during the First Quarter 2016.

- Pursuant to the Maryland Department of Environment (MDE)-approved Groundwater Monitoring Plan (GWMP), WSP performed oversight of the abandonment of the following wells during the week of January 11, 2016:

  Surficial Groundwater Zone

MW-02-40	MW-07-22	MW-11-60	MW-15-40	OW-1-56
MW-05-31	MW-08-42	MW-12-48	MW-17-52	OW-2-55
MW-06-36	MW-10-27	MW-14-47	MW-38-28	TW-1-63

  Deep Groundwater Zone

MW-2D-138	MW-17D-97	TW-2-145
MW-19-56	MW-26D-105	

  All wells were abandoned in place by a Maryland-licensed driller from Eichelbergers Inc., in accordance with the procedures described in Section 4 of the GWMP. Copies of the well abandonment reports submitted to MDE are provided in Enclosure A.

- In accordance with Water Appropriation and Use Permit No. AA2004G016 (02), a semi-annual water withdrawal report for groundwater extracted as part of site remediation activities was submitted to MDE on January 26, 2016. The withdrawal report covers the time period from July 2015 through December 2015.

- An access agreement for conducting field investigation activities on the adjoining Williams Scotsman Inc. property was executed on February 23, 2016.

- On February 24, 2016, WSP submitted to MDE an addendum to the approved Response Action Plan (RAP) for modifications to (1) the installation and design of the deep groundwater extraction wells and (2) water treatment system for the hydraulic containment remedy. MDE approved the addendum in a March 12, 2016, letter to EMERSUB 16 LLC and TC Harmans Road LLC.

- On March 7, 2012, HydraSleeve® samplers were deployed in selected monitoring wells to gather data to evaluate the potential applicability of this sampling technology for the long-term monitoring program at the site. Information on the screened intervals and sampling depths at each monitoring point are provided in Table 1.

The analytical results for the March 2016 HydraSleeve® groundwater samples are summarized in Table 2. Copies of the laboratory analytical reports for these samples are provided in Enclosure B. Overall, the VOC concentrations in the HydraSleeve® samples from both surficial and deep groundwater zone monitoring wells are generally similar to results from previous monitoring events that used either the standard purge or low-flow sampling methods. A report presenting the results of the March 2016 sampling activities and performance evaluation of the HydraSleeve® sampling technology will be provided to MDE in June 2016.

- Electronic copies of the draft National Pollutant Discharge Elimination System (NPDES) permit and accompanying Summary Report and Fact Sheet for the discharge of treated groundwater to Stoney Run were provided to EMERSUB 16 and WSP on March 15, 2016. WSP, on behalf of EMERSUB 16, submitted comments on the draft NPDES permit and fact sheet to the MDE in April 2016.

2.0 Offsite Activities

- Two groundwater monitoring events were conducted for the offsite wells the weeks of January 4th, 2016 and March 21st, 2016, to further assess the groundwater quality in the residential area south of the former Kop-Flex facility. During the March 2016 sampling activities at well MW-35-298, a portion of the sample pump assembly became disconnected and lodged inside the well casing; therefore, this well was not sampled at the same time as the other offsite wells. WSP was able to retrieve the lost equipment from the well and collect a groundwater sample at a later date (April 15, 2016).

  As part of the March 2016 sampling event, WSP obtained water level measurements from all offsite monitoring wells and the remaining deep monitoring wells onsite. A contour map of the potentiometric surface for the semi-confined portion of the Lower Patapsco Aquifer based on the contouring of the water level data from the deep wells is provided in Figure 1. Evaluation of the hydraulic head data indicates a generally south-southeast flow path for the groundwater in the semi-confined zone of the aquifer.

  The analytical results for the January 2016 and March 2016 sampling events are summarized in Tables 3 and 4, respectfully. The historical sampling data for the offsite wells are provided in Table 5. (Copies of the laboratory reports for the samples are provided in Enclosures C and D.) No site-related VOCs were detected in the January 2016 samples from the two shallow wells (MW-25-40 and MW-28-45) in the unconfined portion of the Lower Patapsco aquifer. Very low concentrations of 1,1-dichloroethene (DCE) were present in the shallow well samples from the March 2016 event. The detection of this compound in the MW-25-40 and MW-28-45 samples is considered anomalous because no site-related VOCs had been detected in the previous six monitoring events (see Table 5). For the deep wells completed in the semi-confined portion of the aquifer, 1,1-DCE, 1,2-dichloroethane (DCA), and trichloroethene (TCE) were detected at levels above the applicable MDE groundwater quality standards and US EPA maximum contaminant levels (MCLs) in the samples from well MW-25-130, which is located in the northeastern portion of the Harmans Woods neighborhood south of the Maryland Route 100 (Figures 2 and 3). The samples from this well also contained 1,4-dioxane at concentrations greater than the risk-based level of 6.7 µg/l that MDE has established for this constituent at the site. (There is no promulgated MCL for 1,4-dioxane.) Lower COC concentrations were detected in the samples from the deeper well (MW-25-192) at this location, which is consistent with the known vertical distribution of constituents in the semi-confined groundwater zone. The sampling data for the deep monitoring wells located south (downgradient) of MW-25 contained non-detect to low concentrations of the site-related VOCs (Figures 2 and 3). The concentrations of 1,1-DCE in the samples from well MW-28-210 – 11.5 µg/l (January 2016) and 9.1 µg/l (March 2016) – are slightly above the MDE groundwater quality standard and MCL for this compound. In addition, the concentrations of 1,4-dioxane – 7.6 µg/l (January 2016) and 7.8 µg/l (March 2016) – in the samples from the deeper of the two wells at the MW-33 location (MW-33-295) are slightly above the MDE risk-based level (Tables 3 and 4). The groundwater samples from the shallower of the two wells at the MW-33 location typically had non-detect levels for the site-related VOCs.

Initial evaluation of the analytical data for the seven rounds of quarterly groundwater samples indicates some temporal variation in concentrations of the primary site-related COCs at the wells screened in the confined portion of the Lower Patapsco aquifer. Trend analysis was conducted using the Mann-Kendall method to determine the presence of statistically significant concentration trends in the data for 1,1,1-trichloroethane (TCA), 1,1-DCA, 1,1-DCE, and 1,4-dioxane from the following wells.

- MW-25-130
- MW-25-190
- MW-28-210
- MW-33-295

The results of the Mann-Kendall trend analysis indicate the concentrations of chlorinated ethanes (1,1,1-TCA and 1,1-DCA) in the samples from the MW-25 wells exhibit decreasing trends at a confidence level of greater than 95%. No trend in chlorinated ethane concentrations was determined for the data from wells MW-28-210 and MW-33-295. For 1,1-DCE and 1,4-dioxane, statistical analysis of the sampling data indicated no concentration trends at a greater than 95% confidence level at any well location. Given the presence of decreasing or stable trends in the concentrations of the primary site-related COCs, WSP recommends modifying the sampling frequency for the offsite monitoring wells from quarterly to semi-annually for future events. In addition, further sampling of shallow wells MW-25-40 and MW-28-45 is not deemed necessary because the preponderance of the monitoring data indicate the absence of site-related COCs in the surficial groundwater zone in this area.

- On March 18, 2016, water samples were collected from the potable wells at 7932 Andorick Drive and 7740 Twin Oaks Road. The analytical results for these samples were received the week of April 4th, 2016. A copy of the laboratory analytical report is included in Enclosure E. Trace to very low levels of site-related chlorinated VOCs and 1,4-dioxane were detected in the samples. The detected concentrations were generally comparable to data from previous sampling events, although 1,4-dioxane in the well at 7932 Andorick Drive showed an approximate 2x increase with respect to the September 2015 sample. The 1,4-dioxane concentration in this sample was below the risk-based level developed by MDE. In addition, none of the chlorinated VOCs detected in the samples were above the MDE groundwater quality standards.

3.0 Planned Activities for Next Reporting Period (April 2016 – June 2016)

3.1 Onsite Activities

- Complete the design for the treatment equipment building and continue the process for the selection of qualified contractors for the system installation. Construction of the remedial system is tentatively scheduled to begin in June 2016.

- Update the existing Site Health and Safety Plan to include planned construction oversight and operation, maintenance, and monitoring activities, and submit the revised plan to MDE for review.

- Execute an access agreement with Verizon; then conduct groundwater profiling and well installation activities at locations on the Williams Scotsman property to the east of the site and the Verizon property to the north.

3.2 Offsite Activities

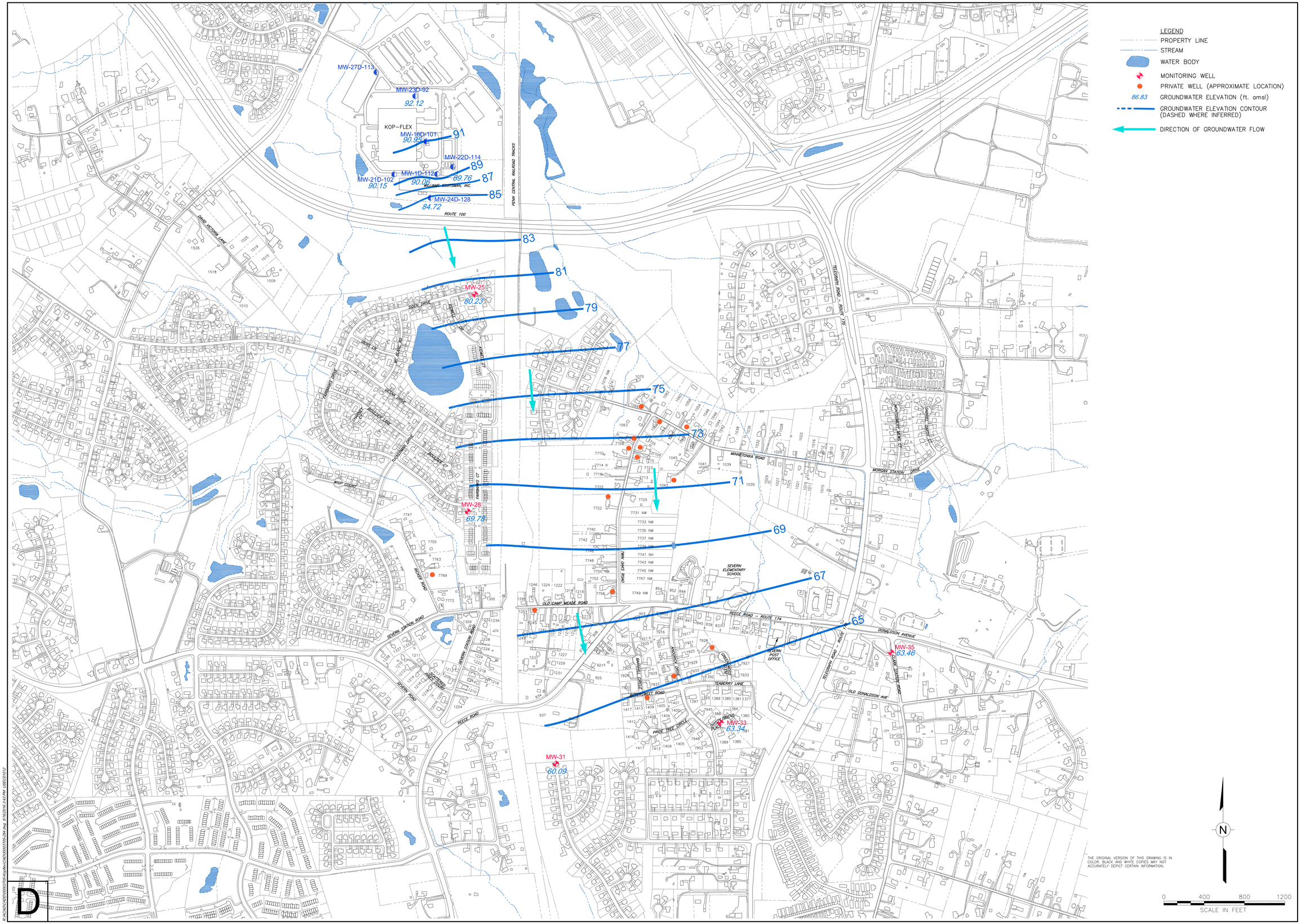
- Communicate with Anne Arundel County Department of Public Works regarding their review of the Right-of-Way permit applications for the installation of the additional groundwater monitoring wells.

- Transmittal of the analytical results for the residential well samples collected in March 2016 to the property owners at 7932 Andorick Drive and 7740 Twin Oaks Road.

4.0 Key Personnel/Facility Changes

There were no changes to key project personnel during the reporting period.

Figures



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POTENTIOMETRIC SURFACE CONTOURS FOR THE LOWER PATAPSCO AQUIFER MARCH 2016

KOP-FLEX VCP SITE
HANOVER, MARYLAND

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP | PARSONS BRINCKERHOFF
WSP USA Corp.
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FIGURE 1

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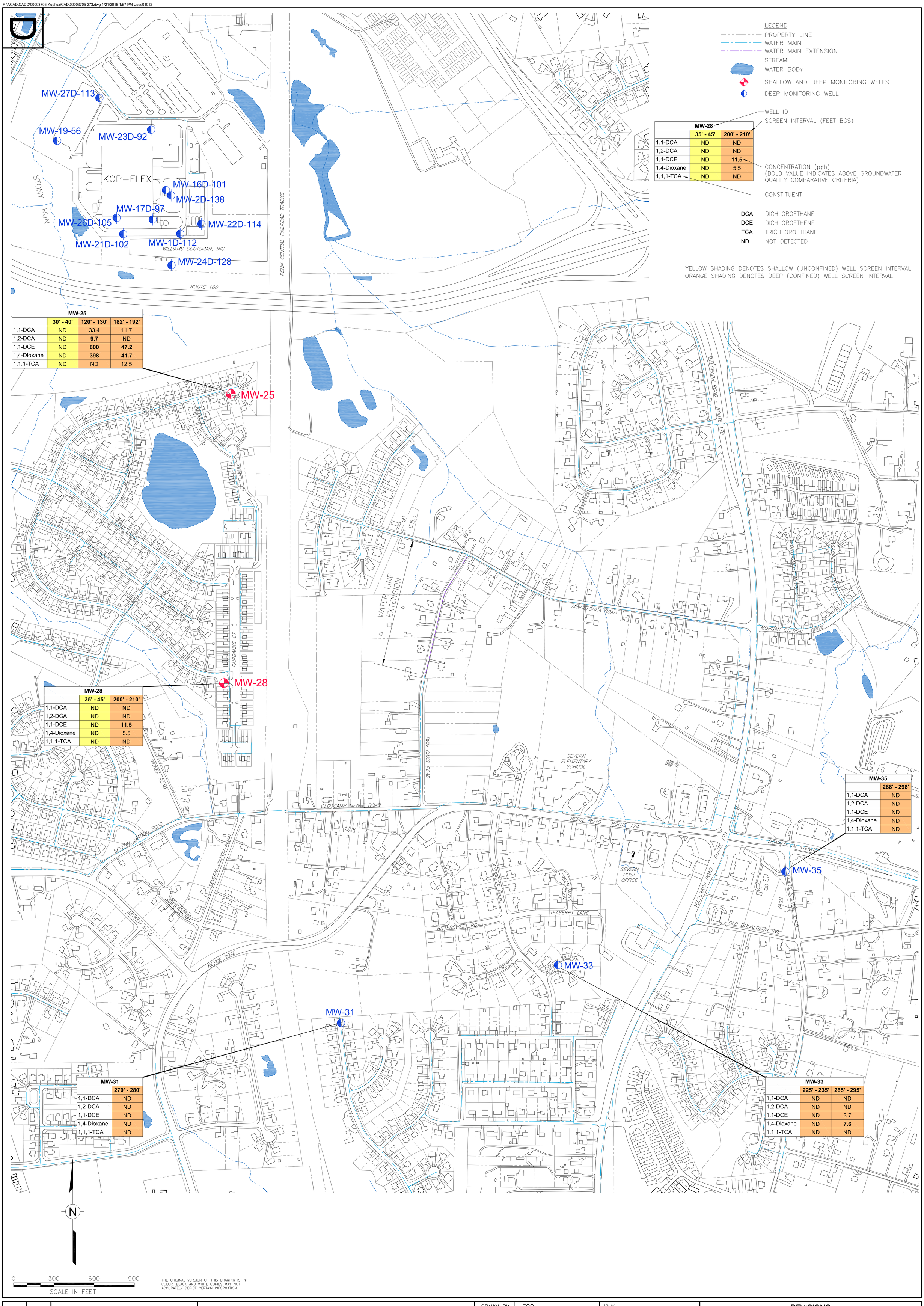

MW-28	35' - 45'	200' - 210'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	**11.5**
1,4-Dioxane	ND	5.5
1,1,1-TCA	ND	ND

MW-25	30' - 40'	120' - 130'	182' - 192'
1,1-DCA	ND	33.4	11.7
1,2-DCA	ND	**9.7**	ND
1,1-DCE	ND	**800**	**47.2**
1,4-Dioxane	ND	**398**	**41.7**
1,1,1-TCA	ND	ND	12.5

MW-28	35' - 45'	200' - 210'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	**11.5**
1,4-Dioxane	ND	5.5
1,1,1-TCA	ND	ND

MW-35	288' - 298'
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	ND
1,1,1-TCA	ND

MW-31	270' - 280'
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	ND
1,1,1-TCA	ND

MW-33	225' - 235'	285' - 295'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	3.7
1,4-Dioxane	ND	**7.6**
1,1,1-TCA	ND	ND

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FIGURE 2

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OFFSITE MONITORING WELL VOC CONCENTRATIONS JANUARY 2016

KOP–FLEX VCP SITE
HANOVER, MARYLAND

PREPARED FOR

EMERSON
ST. LOUIS, MISSOURI

DRAWN BY	EGC	
CHECKED	LRB	1/21/2016
APPROVED	RGJ	

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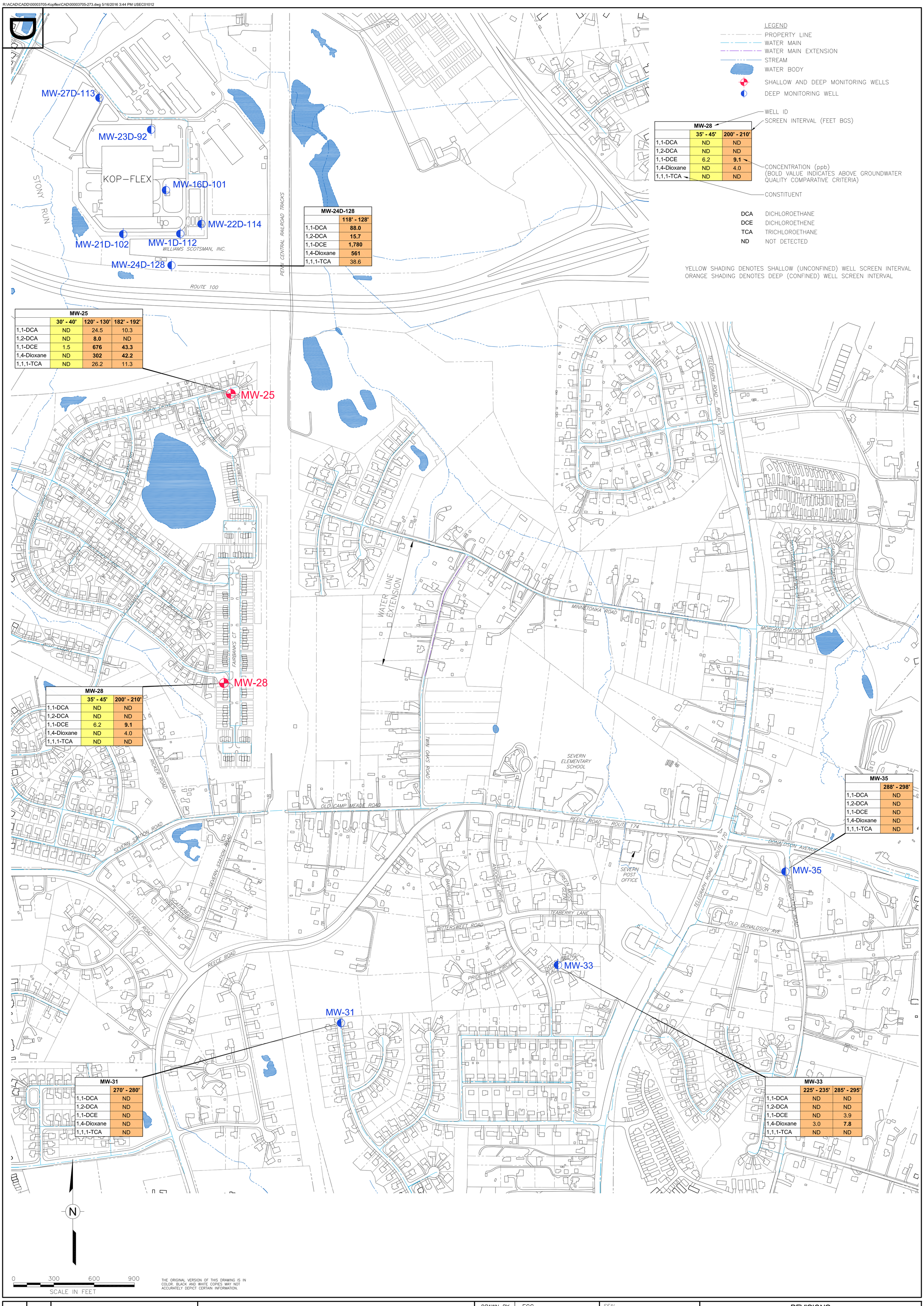

MW-24D-128	118' - 128'
1,1-DCA	88.0
1,2-DCA	15.7
1,1-DCE	1,780
1,4-Dioxane	561
1,1,1-TCA	38.6

MW-25	30' - 40'	120' - 130'	182' - 192'
1,1-DCA	ND	24.5	10.3
1,2-DCA	ND	8.0	ND
1,1-DCE	1.5	676	43.3
1,4-Dioxane	ND	302	42.2
1,1,1-TCA	ND	26.2	11.3

MW-28	35' - 45'	200' - 210'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	6.2	9.1
1,4-Dioxane	ND	4.0
1,1,1-TCA	ND	ND

MW-35	288' - 298'
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	ND
1,1,1-TCA	ND

MW-31	270' - 280'
1,1-DCA	ND
1,2-DCA	ND
1,1-DCE	ND
1,4-Dioxane	ND
1,1,1-TCA	ND

MW-33	225' - 235'	285' - 295'
1,1-DCA	ND	ND
1,2-DCA	ND	ND
1,1-DCE	ND	3.9
1,4-Dioxane	3.0	7.8
1,1,1-TCA	ND	ND

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FIGURE 3

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OFFSITE MONITORING WELL VOC CONCENTRATIONS MARCH 2016

KOP-FLEX VCP SITE
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PREPARED FOR

EMERSON
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DRAWN BY	EGC	
CHECKED	MCR	5/13/2016
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Tables

Table 1

HydraSleeve Sampling Information
Former Kop-Flex Facility Site
Hanover, Maryland
March 2016

Well ID	Top of Casing Elevation (feet MSL)	Depth To Water (feet bgs)	Groundwater Elevation (feet MSL)	Well Depth (feet bgs)	Well Screened Interval (feet bgs)	HydraSleeve Sample Interval (feet bgs)
MW-01-33	133.312	17.49	115.82	33	23-33	25.5-28
MW-1D-112	129.672	39.61	90.06	112	102-112	104.5-107
MW-03-25.5	117.442	9.89	107.55	25.5	15.5-25.5	18-20.5
MW-04-38	129.102	13.75	115.35	38	28-38	30.5-33
MW-09-25	125.102	9.51	115.59	25	15-25	17.5-20
MW-16-50	123.792	32.96	90.83	50	40-50	42.5-45
MW-16D-100	123.912	39.09	84.82	100	90-100	92.5-95
MW-18-56	122.852	17.88	104.97	56	46-56	48.5-51
MW-21D-102	122.992	32.84	90.15	102	92-102	94.5-97
MW-23D-92	128.852	30.4	98.45	92	82-92	84.5-87
MW-24D-128	129.102	44.38	84.72	128	118-128	120.5-123

a/ MSL = mean sea level; bgs = below ground surface

Table 2

HydraSleeve Groundwater Sample Results
Former Kop-Flex Facility Site
Hanover, Maryland
March 2016

Analyte (b)	Groundwater Quality Criteria (ug/L)	MW-01-33 3/21/2016	MW-1D-112 3/21/2016	MW-03-25.5 3/21/2016	MW-04-38 3/21/2016	MW-09-25 3/21/2016	MW-18-56 3/21/2016	MW-16-50 3/21/2016	MW-16D-100 3/21/2016	MW-21D-102 3/21/2016	MW-23D-92 3/21/2016	MW-24D-128 3/22/2016	MW-100 (e) 3/21/2016
Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.4	12.5 U	1 U
Chloroform	80	1 U	1 U	1 U	1.6	1 U	1 U	1 U	1 U	1 U	1 U	12.5 U	1 U
Chloroethane	3.6	1 U	1 U	1 U	1 U	1 U	1 U	**176**	1 U	1 U	1 U	12.5 U	1 U
1,1,1-Trichloroethane	200	1 U	21	1 U	58.2	2.1	1 U	**7,410**	27.9	1 U	25.7	28.0	1 U
1,1-Dichloroethane	90	1 U	18.1	1 U	**422**	4	1 U	**5,350**	59.7	2.8	39.6	68.2	1 U
1,1-Dichloroethene	7	1 U	**148**	1 U	**1,180**	**74**	1 U	**6,660**	**182**	**20.5**	**138**	**1,280**	1 U
1,2-Dichloroethane	5	1 U	1.9	1 U	**10.1**	1 U	1 U	1 U	2.8	1 U	1.9	12.5 U	1 U
Trichloroethene	5	1 U	1 U	1 U	**10.9**	1 U	1 U	**68.2**	1.1	1 U	1 U	12.5 U	1 U
1,4-Dioxane	6.7 (d)	2.3	**98.9**	3.2	**878**	**29.9**	2 U	**903**	**92.1**	**19.8**	**131**	**452**	2 U
Tetrachloroethene	5	1 U	1 U	1 U	**5.3**	1 U	1 U	1 U	1 U	1 U	1 U	12.5 U	1 U

a/ U = not detected at a concentration above the method detection limit
Bolded number indicates concentration above the groundwater quality criteria
b/ All concentrations in micrograms per liter (µg/l)
c/ Groundwater Quality Criteria sources:
RSLs: http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%20dated%205-20-08(1).pdf
d/ Value represents MDE risk-based cleanup level.
e/ Field duplicate of the sample from well MW-18-56.

Table 3

Offsite Groundwater Monitoring Well Sampling Results
January 2016 Sampling Event
Former Kop-Flex Facility Site
Hanover, Maryland

Analyte (a)	Maryland Groundwater Standards (ug/L)	MW-25-40 1/6/2016	MW-25-130 1/7/2016	MW-25-190 1/7/2016	MW-28-45 1/5/2016	MW-28-210 1/5/2016	MW-31-280 1/6/2016	MW-33-235 1/4/2016	MW-33-295 1/4/2016	MW-35-298 1/6/2016	MW-100 (b) 1/5/2016
1,1-Dichloroethane	90.0	1.0 U	33.4	11.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	5.0	1.0 U	9.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7.0	1.0 U	800	47.2	1.0 U	11.5	1.0 U	1.0 U	3.7	1.0 U	10.3
1,4- Dioxane	6.7 (c)	2.0 U	398	41.7	2.0 U	5.5	2.0 U	2.0 U	7.6	2.0 U	5.5
Tetrachloroethene	5.0	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5.0	1.0 U	6.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	200.0	1.0 U	5.0 U	12.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

a/ U = analyte not detected above reporting limit
All concentrations in micrograms per liter (µg/l).
Bolded numbers are analytes detected above MDE groundwater quality standards
b/ Blind duplicate sample of MW-28-210.
c/ Value represents MDE risk-based cleanup level.

Table 4

Summary of Offsite Monitoring Well Sample Results
March 2016 Sampling Event
Former Kop-Flex Facility Site
Hanover, Maryland

Analyte (b)	Groundwater Quality Criteria (ug/L) (c)	MW-24D-128 3/22/2016	MW-25-40 3/23/2016	MW-25-130 3/23/2016	MW-25-192 3/23/2016	MW-28-45 3/22/2016	MW-28-210 3/23/2016	MW-31-280 3/21/2016	MW-33-235 3/21/2016	MW-33-295 3/21/2016	MW-35-298 4/15/2016	MW-100 (e) 3/23/2016
1,1,1-Trichloroethane	200	38.6	1.0 U	26.2	11.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	90	88.0	1.0 U	24.5	10.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	7	**1,780**	1.5	**676**	**43.3**	6.2	**9.1**	1.0 U	1.0 U	3.9	1.0 U	**9.1**
1,2-Dichloroethane	5	**15.7**	1.0 U	**8.0**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	12.5 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	6.7 (d)	**561**	2.0 U	**302**	**42.2**	2.0 U	4.0	2.0 U	3.0	**7.8**	2.0 U	5.5
Tetrachloroethene	5	12.5 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

a/ U = not detected at a concentration above the method detection limit
Bolded number indicates concentration above the groundwater quality criteria
b/ All concentrations in micrograms per liter (µg/l)
c/ Groundwater Quality Criteria sources:
RSLs: http://www.mde.maryland.gov/assets/document/Final%20Update%20No%202.1%20dated%205-20-08(1).pdf
d/ Value represents MDE risk-based cleanup level.
e/ Field duplicate of the sample from well MW-28-210.

Table 5

Summary of COCs Detected in Groundwater Samples
Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Monitoring Well	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,4- Dioxane	Methylene Chloride	Methyl-tert-butyl Ether	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Total VOCs
MW-24D-128														
Jun-12 (c)	ND	ND	ND	1,300	ND	ND	342	ND	ND	ND	53	ND	ND	1,695
Aug-12	ND	72	13	1,600	6	ND	NA	ND	ND	1.7	60	1.5	13	1,767
Dec-12	1.3	61	12	1,500	6.7	ND	393	ND	ND	1.8	62	1.5	16	2,055
Jul-13	1.2	57.7	10.8	1,520	6.2	1.1	470	ND	ND	1.4	48.7	1.3	12.4	2,131
Dec-13 (c)	ND	47.4	ND	1,190	ND	ND	433	ND	ND	ND	34.1	ND	10.1	1,715
Jun-14 (c)	ND	57.3	11.3	1,510	ND	ND	488	ND	ND	ND	43.4	ND	14.2	2,124
Dec-14 (d)	ND	106	ND	2,640	ND	ND	657 (c)	ND	ND	ND	60.9	ND	ND	3,464
Jun-15 (d)	ND	92.5	ND	2,100	ND	ND	728 (c)	ND	ND	ND	53.3	ND	ND	2,974
Mar-16 (e)	ND	88.0	15.7	1,780	ND	ND	561 (c)	39.4 (f)	ND	ND	38.6	ND	ND	2,523
MW-25-40														
Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	2
Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	2
Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jun-15	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	1
Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	1
Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	1
Mar-16	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
MW-25-130														
Sep-14	1.5	47.0	12.3	1,140	6.1	ND	492	ND	ND	1.1	64.2	2.0	11.2	1,777
Dec-14 (c)	ND	31.4	ND	799	ND	ND	349	25.5	ND	ND	33.4	ND	ND	1,238
Mar-15 (c)	ND	38.6	10.8	854	ND	ND	446	66.8	ND	ND	43.5	ND	ND	1,460
Jun-15 (e)	1.1	37.1	8.9	1,030	4.6	ND	303	66.8	ND	ND	46.3	1.2	6.8	1,506
Sep-15 (c)	ND	29.7	ND	697	ND	ND	295	ND	ND	ND	32.3	ND	14.2	1,068
Jan-16	ND	33.4	9.7	800	ND	ND	398	ND	ND	ND	ND	ND	6.1	1,247
Mar-16	ND	24.5	8.0	676	ND	ND	302	ND	ND	ND	26.2	ND	ND	1,037
MW-25-192														
Sep-14	ND	10.8	ND	52.2	ND	ND	65.1	ND	ND	ND	14.0	ND	ND	142
Dec-14	ND	13.3	ND	58.2	ND	ND	45.9	ND	ND	ND	15.6	ND	ND	133
Mar-15	ND	11.7	ND	53.0	ND	ND	49.4	ND	ND	ND	13.7	ND	ND	128
Jun-15	ND	11.9	ND	59.4	ND	ND	39.8	ND	ND	ND	14.2	ND	ND	125
Sep-15	ND	13.9	ND	51.4	ND	ND	45.0	ND	1.2	ND	12.9	ND	1.3	126
Jan-16	ND	11.7	ND	47.2	ND	ND	41.7	ND	1.1	ND	12.5	ND	ND	114
Mar-16	ND	10.3	ND	43.3	ND	ND	42.2	ND	1.0	ND	11.3	ND	ND	108

Table 5

Summary of COCs Detected in Groundwater Samples
Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Monitoring Well	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,4- Dioxane	Methylene Chloride	Methyl-tert-butyl Ether	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Total VOCs
MW-28-45														
Sep-14	ND	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND	ND	7
Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jun-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Mar-16	ND	ND	ND	6.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	6
MW-28-210														
Sep-14	ND	ND	ND	6.8	ND	ND	5.1	ND	ND	ND	ND	ND	ND	12
Dec-14	ND	ND	ND	9.4	ND	ND	4.1	ND	ND	ND	ND	ND	ND	14
Mar-15	ND	ND	ND	10.8	ND	ND	6.0	ND	ND	ND	ND	ND	ND	17
Jun-15	ND	ND	ND	12.8	ND	ND	4.5	ND	ND	ND	ND	ND	ND	17
Sep-15	ND	ND	ND	14.3	ND	ND	4.4	ND	ND	ND	ND	ND	ND	19
Jan-16	ND	ND	ND	11.5	ND	ND	5.5	ND	ND	ND	ND	ND	ND	17
Mar-16	ND	ND	ND	9.1	ND	ND	4.0	ND	ND	ND	ND	ND	ND	13
MW-31-280														
Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Dec-14	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	2
Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jun-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Mar-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
MW-33-235														
Sep-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jun-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Mar-16	ND	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND	3
MW-33-295														
Sep-14	ND	ND	ND	3.3	ND	ND	7.2	ND	ND	ND	ND	ND	ND	11

Table 5

Summary of COCs Detected in Groundwater Samples
Offsite Monitoring Wells
Former Kop-Flex Facility Site
Hanover, Maryland (a)

Monitoring Well	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,4- Dioxane	Methylene Chloride	Methyl-tert-butyl Ether	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Total VOCs
Dec-14	ND	ND	ND	3.5	ND	ND	7.1	ND	ND	ND	ND	ND	ND	11
Mar-15	ND	ND	ND	4.8	ND	ND	8.0	ND	ND	ND	ND	ND	ND	13
Jun-15	ND	ND	ND	3.3	ND	ND	6.8	ND	ND	ND	ND	ND	ND	10
Sep-15	ND	ND	ND	4.8	ND	ND	6.8	ND	ND	ND	ND	ND	ND	12
Jan-16	ND	ND	ND	3.7	ND	ND	7.6	ND	ND	ND	ND	ND	ND	11
Mar-16	ND	ND	ND	3.9	ND	ND	7.8	ND	ND	ND	ND	ND	ND	12
MW-35-298														
Sep-14	ND	ND	ND	ND	ND	ND	36.7	ND	ND	ND	ND	ND	ND	37
Dec-14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Mar-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jun-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Sep-15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Jan-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Apr-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--

a/ all samples measured in ppb (ug/L);
all samples collected using low-flow purging techniques
ND = not detected
b/suspected laboratory contaminant
c/ sample run at a 10x dilution
d/sample run at 20x dilution
e/sample run at 12.5x dilution
f/ compound was detected in associated method blank.

Enclosure A – Well Abandonment Report Forms

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year) DN15030 - MW07-22

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.151207

LONGITUDE -76.702187

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 21.6 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	21.6

VOLUME OF MATERIAL USED

67 lbs Portland cement
4 lbs granular bentonite

Kevin P Weigle MWD 552 — MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

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DN15030-MW1956

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ___ BLOCK ___ PARCEL ___
SUBDIVISION: ___
SECTION: ___ LOT: ___
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.150940

LONGITUDE -76.703163

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ___ JETTED
___ BORED ___ HAND DUG
___ OTHER (specify) ___

* USE CODE:
___ DOMESTIC ___ MUNICIPAL/PUBLIC
___ IRRIGATION ___ INDUSTRIAL
✓ TEST/OBSERVATION ___ GEOTHERMAL

* TYPE OF CASING:
___ STEEL ✓ PLASTIC
___ CONCRETE ___ OTHER (specify) ___

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 55.8 FEET DEEP

WAS ANY CASING REMOVED? ___ YES ✓ NO
If yes, length removed, in feet: ___

WAS CASING RIPPED OR PERFORATED? ___ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	55.8

VOLUME OF MATERIAL USED
174 lbs Portland cement
10 lbs granular bentonite

Kevin P Weigle MWD552
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

(MWD) / MSD / MGS
CIRCLE ONE

DATE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

DN 15030 - MW 06-36

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) — —
* PERMIT NUMBER OF REPLACEMENT WELL: — —
* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD
* OWNER'S NAME: Kop Flex
* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149044

LONGITUDE -76.701889

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify)

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 38.6 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	38.6

VOLUME OF MATERIAL USED

120 lbs Portland cement
7 lbs granular bentonite

Kevin Pluweigle MWD552 MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

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DN 15030-MW14-47

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ____ ____

* PERMIT NUMBER OF REPLACEMENT WELL: ____ ____

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149364

LONGITUDE -76.701622

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
cement grout slurry	0	41.6

VOLUME OF MATERIAL USED

130 lbs Portland cement
7 lbs granular bentonite

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 41.6 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

Kevin L Weigle MWD 552 (MWD) / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

DN 15030- MW 10-27

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ___ BLOCK ___ PARCEL ___
SUBDIVISION: ___
SECTION: ___ LOT: ___
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.150402

LONGITUDE -76.700401

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ___ JETTED
___ BORED ___ HAND DUG
___ OTHER (specify) ___

* USE CODE:
___ DOMESTIC ___ MUNICIPAL/PUBLIC
___ IRRIGATION ___ INDUSTRIAL
✓ TEST/OBSERVATION ___ GEOTHERMAL

* TYPE OF CASING:
___ STEEL ✓ PLASTIC
___ CONCRETE ___ OTHER (specify) ___

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 22.5 FEET DEEP

WAS ANY CASING REMOVED? ___ YES ✓ NO
If yes, length removed, in feet: ___

WAS CASING RIPPED OR PERFORATED? ___ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	22.5

VOLUME OF MATERIAL USED

70 lbs Portland cement
4 lbs granular bentonite

Kevin P Weigle MWD 552 — MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

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WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030-OW2-55

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmons Road

LATITUDE 39.150223

LONGITUDE 76.702156

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement grout slurry	0	54.95

VOLUME OF MATERIAL USED

172 lbs Portland cement
10 lbs granular bentonite

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 54.95 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

Kevin P Weigle MWD 552 MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030 - MW38-28

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ____ — ____

* PERMIT NUMBER OF REPLACEMENT WELL: ____ — ____

* PERSON ABANDONING WELL: Kevin Weigle

WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.150089

LONGITUDE -76.702393

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 25.3 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	25.3

VOLUME OF MATERIAL USED

79 lbs Portland cement
4 lbs granular bentonite

Kevin P Weigle MWD 552 (MWD) / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030 - OW1-56

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.150040

LONGITUDE -76.702400

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 56 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	56

VOLUME OF MATERIAL USED

174 lbs portland cement
10 lbs granular bentonite.

Kevin P Weigle MWP 552 MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN 15030-TW1-63

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ____ ____

* PERMIT NUMBER OF REPLACEMENT WELL: ____ ____

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149952

LONGITUDE -76.702110

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 4 INCHES IN DIAMETER

DEPTH OF WELL: 64.25 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	64.25

VOLUME OF MATERIAL USED

402 lbs Portland cement
23 lbs. granular bentonite

Kevin P Weigle MWD 552 — MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030-MW5-31

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ____ — ____

* PERMIT NUMBER OF REPLACEMENT WELL: ____ — ____

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149670

LONGITUDE -76.702156

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 28.8 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	28.8

VOLUME OF MATERIAL USED

90 lbs Portland cement
5 lbs granular bentonite

Kevin P Weigle MWD552 — (MWD) / MSD / MGS — ⊛
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

DN150300-MW26D-105

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ____ ____

* PERMIT NUMBER OF REPLACEMENT WELL: ____ ____

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149361

LONGITUDE -76.701714

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 104.9 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	104.9

VOLUME OF MATERIAL USED

328 lbs Portland cement
19 lbs granular bentonite

Kevin P Weigle MWD 552 — MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

DN15030- MW17-52

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ___ BLOCK ___ PARCEL ___
SUBDIVISION: ___
SECTION: ___ LOT: ___
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149311

LONGITUDE -76.700714

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ___ JETTED
___ BORED ___ HAND DUG
___ OTHER (specify) ___

* USE CODE:
___ DOMESTIC ___ MUNICIPAL/PUBLIC
___ IRRIGATION ___ INDUSTRIAL
✓ TEST/OBSERVATION ___ GEOTHERMAL

* TYPE OF CASING:
___ STEEL ✓ PLASTIC
___ CONCRETE ___ OTHER (specify) ___

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 516 FEET DEEP

WAS ANY CASING REMOVED? ___ YES ✓ NO
If yes, length removed, in feet: ___

WAS CASING RIPPED OR PERFORATED? ___ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	51.6

VOLUME OF MATERIAL USED

161 lbs Portland cement
9 lbs granular bentonite

Kevin Weigle MWD 552 (MWD) / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

DN15030-MW17D-97

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ___ BLOCK ___ PARCEL ___
SUBDIVISION: ___
SECTION: ___ LOT: ___
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149311

LONGITUDE -76.700684

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ___ JETTED
___ BORED ___ HAND DUG
___ OTHER (specify) ___

* USE CODE:
___ DOMESTIC ___ MUNICIPAL/PUBLIC
___ IRRIGATION ___ INDUSTRIAL
✓ TEST/OBSERVATION ___ GEOTHERMAL

* TYPE OF CASING:
___ STEEL ✓ PLASTIC
___ CONCRETE ___ OTHER (specify) ___

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 92.68 FEET DEEP

WAS ANY CASING REMOVED? ___ YES ✓ NO
If yes, length removed, in feet: ___

WAS CASING RIPPED OR PERFORATED? ___ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
cement grout slurry	0	92.68

VOLUME OF MATERIAL USED

290 lbs Portland cement
17 lbs granular bentonite

Kevin Pluergle MWD 552 — (MWD) / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030 - TW2-145

SUBMIT COPIES OF COMPLETED FORM TO:

* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ____ — ____

* PERMIT NUMBER OF REPLACEMENT WELL: ____ — ____

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7545 Harmans Road

LATITUDE 39.149059

LONGITUDE -76.700233

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 4 INCHES IN DIAMETER

DEPTH OF WELL: 151.8 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement Grout Slurry	0	151.8

VOLUME OF MATERIAL USED

951 lbs Portland cement
55 lbs granular bentonite.

Kevin Weigle MWD 552 — MWD / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030-MW08-42

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/16 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ___ BLOCK ___ PARCEL ___
SUBDIVISION: ___
SECTION: ___ LOT: ___
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.150040

LONGITUDE -76.699303

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ___ JETTED
___ BORED ___ HAND DUG
___ OTHER (specify) ___

* USE CODE:
___ DOMESTIC ___ MUNICIPAL/PUBLIC
___ IRRIGATION ___ INDUSTRIAL
✓ TEST/OBSERVATION ___ GEOTHERMAL

* TYPE OF CASING:
___ STEEL ✓ PLASTIC
___ CONCRETE ___ OTHER (specify) ___

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 44 FEET DEEP

WAS ANY CASING REMOVED? ___ YES ✓ NO
If yes, length removed, in feet: ___

WAS CASING RIPPED OR PERFORATED? ___ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement Grout Slurry	0	44

VOLUME OF MATERIAL USED

137 lbs Portland cement.
8 lbs granular bentonite

Kevin P Weigle MWP 552
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

(MWD) / MSD / MGS
CIRCLE ONE

DATE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

DN15030-MW11-60

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/16 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ — ___
* PERMIT NUMBER OF REPLACEMENT WELL: ___ — ___
* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD
* OWNER'S NAME: Kop Flex
* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ___ BLOCK ___ PARCEL ___
SUBDIVISION: ___
SECTION: ___ LOT: ___
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.150188

LONGITUDE -76.700638

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ___ JETTED
___ BORED ___ HAND DUG
___ OTHER (specify) ___

* USE CODE:
___ DOMESTIC ___ MUNICIPAL/PUBLIC
___ IRRIGATION ___ INDUSTRIAL
✓ TEST/OBSERVATION ___ GEOTHERMAL

* TYPE OF CASING:
___ STEEL ✓ PLASTIC
___ CONCRETE ___ OTHER (specify) ___

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 56.95 FEET DEEP

WAS ANY CASING REMOVED? ___ YES ✓ NO
If yes, length removed, in feet: ___

WAS CASING RIPPED OR PERFORATED? ___ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement Grout Slurry	0	56.95

VOLUME OF MATERIAL USED

178 lbs Portland cement
10 lbs granular bentonite

Kevin P Weigle MWD 552 (MWD) / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030- MW12-48

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/16 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ___ ___

* PERMIT NUMBER OF REPLACEMENT WELL: ___ ___

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ___ BLOCK ___ PARCEL ___
SUBDIVISION: ___
SECTION: ___ LOT: ___
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149605

LONGITUDE -76.700584

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ___ JETTED
___ BORED ___ HAND DUG
___ OTHER (specify) ___

* USE CODE:
___ DOMESTIC ___ MUNICIPAL/PUBLIC
___ IRRIGATION ___ INDUSTRIAL
✓ TEST/OBSERVATION ___ GEOTHERMAL

* TYPE OF CASING:
___ STEEL ✓ PLASTIC
___ CONCRETE ___ OTHER (specify) ___

SIZE OF CASING: 4 INCHES IN DIAMETER

DEPTH OF WELL: 48.3 FEET DEEP

WAS ANY CASING REMOVED? ___ YES ✓ NO
If yes, length removed, in feet: ___

WAS CASING RIPPED OR PERFORATED? ___ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement Grout Slurry	0	48.3

VOLUME OF MATERIAL USED

302 lbs Portland cement
17 lbs granular bentonite

Kevin P Weigle MWD 552 (MWD) / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# CIRCLE ONE DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030-MW15-40

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/2016 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) ____ ____

* PERMIT NUMBER OF REPLACEMENT WELL: ____ ____

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) / MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149876

LONGITUDE -76.700897

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 39.2 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement Grout Slurry	0	39.2

VOLUME OF MATERIAL USED

122 lbs Portland cement
7 lbs granular bentonite

Kevin P Weigle MWD 552 — (MWD) / MSD / MGS
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030-MW02-40

SUBMIT COPIES OF COMPLETED FORM TO:

* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/16 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) — —
* PERMIT NUMBER OF REPLACEMENT WELL: — —
* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: MWD / MSD / MGD
* OWNER'S NAME: Kop Flex
* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149773

LONGITUDE -76.700233

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 42.15 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement Grout Slurry	0	42.15

VOLUME OF MATERIAL USED

132 lbs Portland cement
7 lbs granular bentonite

Kevin Pl Weigle MWD 552 — MWD / MSD / MGS

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# — CIRCLE ONE — DATE

ORIGINAL

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

****

WATER WELL ABANDONMENT-SEALING REPORT FORM

****

DN15030-MW2D-138

SUBMIT COPIES OF COMPLETED FORM TO:
* COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
* WELL OWNER
* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 01/15/16 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) — —

* PERMIT NUMBER OF REPLACEMENT WELL: — —

* PERSON ABANDONING WELL: Kevin Weigle WELL DRILLER'S LICENSE NUMBER: 552
CIRCLE: (MWD) MSD / MGD

* OWNER'S NAME: Kop Flex

* WELL LOCATION:
COUNTY: Anne Arundel
NEAREST TOWN: Hanover
TAX MAP ____ BLOCK ____ PARCEL ____
SUBDIVISION: ____
SECTION: ____ LOT: ____
STREET ADDRESS: 7565 Harmans Road

LATITUDE 39.149818

LONGITUDE -76.700180

SITE LOCATION MAP

* TYPE OF WELL BEING ABANDONED:
✓ DRILLED ____ JETTED
____ BORED ____ HAND DUG
____ OTHER (specify) ____

* USE CODE:
____ DOMESTIC ____ MUNICIPAL/PUBLIC
____ IRRIGATION ____ INDUSTRIAL
✓ TEST/OBSERVATION ____ GEOTHERMAL

* TYPE OF CASING:
____ STEEL ✓ PLASTIC
____ CONCRETE ____ OTHER (specify) ____

SIZE OF CASING: 2 INCHES IN DIAMETER

DEPTH OF WELL: 138.09 FEET DEEP

WAS ANY CASING REMOVED? ____ YES ✓ NO
If yes, length removed, in feet: ____

WAS CASING RIPPED OR PERFORATED? ____ YES ✓ NO

LOG OF SEALING MATERIAL

MATERIAL	FEET FROM	FEET TO
Cement Grout Slurry	0	138.09

VOLUME OF MATERIAL USED

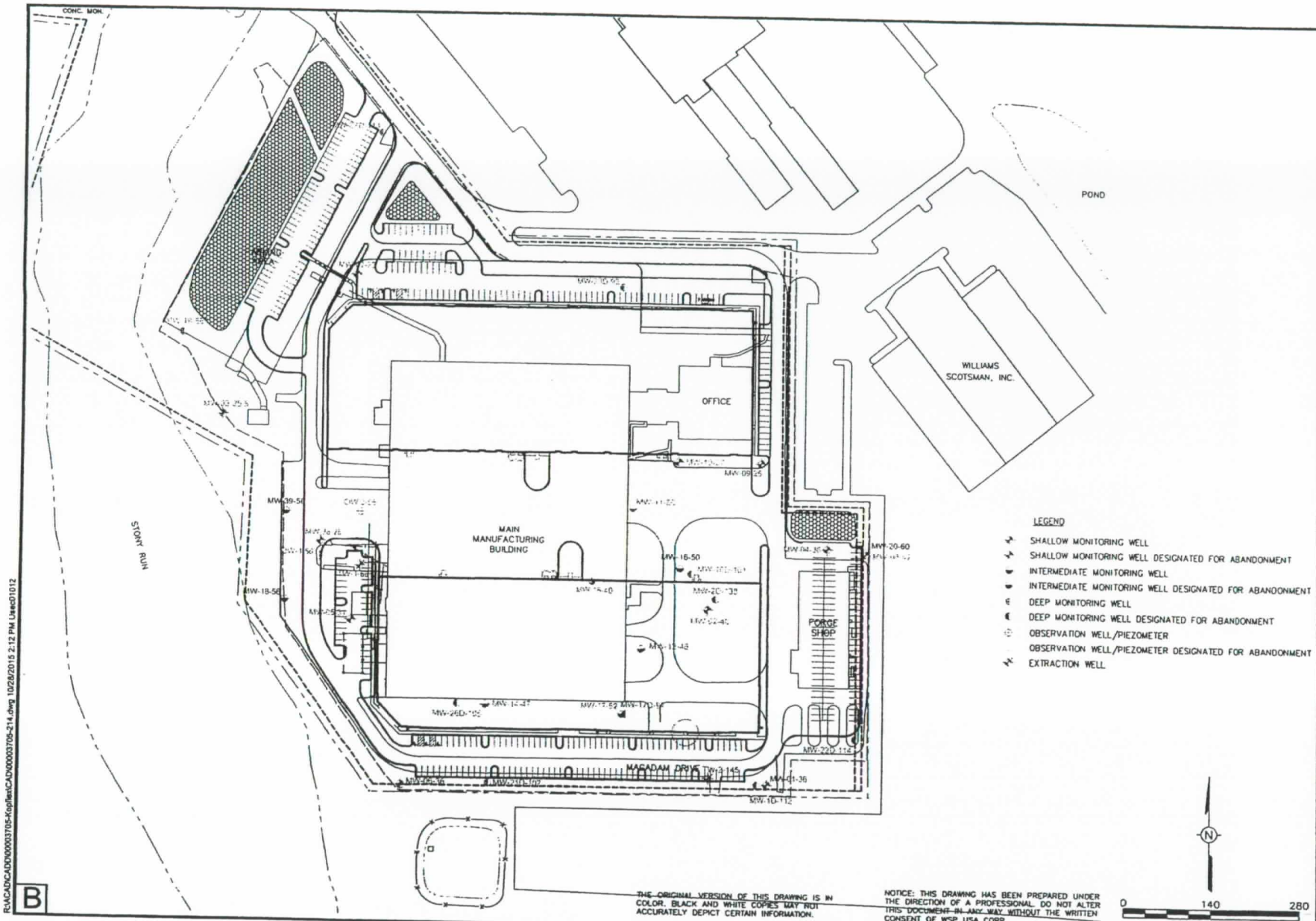
432 lbs Portland cement
25 lbs granular bentonite

Kevin P Weigle MWD552
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

(MWD) MSD / MGS
CIRCLE ONE

DATE

ORIGINAL



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NOTICE: THIS DRAWING HAS BEEN PREPARED UNDER THE DIRECTION OF A PROFESSIONAL. DO NOT ALTER THIS DOCUMENT IN ANY WAY WITHOUT THE WRITTEN CONSENT OF WSP USA CORP.

Drawn By: EGC
Checked:
Approved: 5/23/2016
DWG Name: 00003705-214

FORMER KOPFLEX FACILITY
HANOVER, MARYLAND
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

Figure 1
EXISTING WELLS PLANNED FOR ABANDONMENT

WSP | PARSONS BRINCKERHOFF
WSP USA Corp.
13530 Dulles Technology Drive, Suite 300
Herndon, Virginia 20171
(703) 709-6500
www.wspgroup.com/usa

R:\ACAD\CADD\00003705-Kopflex\CAD\00003705-214.dwg 10/28/2015 2:12 PM Usec01012

B

Enclosure B – Laboratory Analytical Reports
HydraSleeve® Field Demonstration Test (March 2016)

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

March 29, 2016

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

RE: Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Dear Eric Johnson:
Enclosed are the analytical results for sample(s) received by the laboratory on March 22, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Keith Green, WSP Environmental Strategies

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	KOP-FLEX 3705-29
Pace Project No.:	92290859

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

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(704)875-9092

SAMPLE SUMMARY

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92290859001	**MW-100-HS**	Water	03/21/16 07:45	03/22/16 09:40
92290859002	**MW-18-56-HS**	Water	03/21/16 08:00	03/22/16 09:40
92290859003	**MW-03-25.5-HS**	Water	03/21/16 08:30	03/22/16 09:40
92290859004	**MW-23D-92-HS**	Water	03/21/16 09:05	03/22/16 09:40
92290859005	**MW-21D-102-HS**	Water	03/21/16 10:00	03/22/16 09:40
92290859006	**MW-1D-112-HS**	Water	03/21/16 10:15	03/22/16 09:40
92290859007	**MW-01-33-HS**	Water	03/21/16 10:35	03/22/16 09:40
92290859008	**MW-04-38-HS**	Water	03/21/16 10:48	03/22/16 09:40
92290859009	**MW-09-25-HS**	Water	03/21/16 12:02	03/22/16 09:40
92290859010	**MW-16-50-HS**	Water	03/21/16 12:15	03/22/16 09:40
92290859011	**MW-16D-100-HS**	Water	03/21/16 12:35	03/22/16 09:40
92290859012	**TRIP BLANKS**	Water	03/21/16 00:00	03/22/16 09:40
92290859013	**EB-032116**	Water	03/21/16 16:15	03/22/16 09:40

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SAMPLE ANALYTE COUNT

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92290859001	**MW-100-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859002	**MW-18-56-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859003	**MW-03-25.5-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859004	**MW-23D-92-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859005	**MW-21D-102-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859006	**MW-1D-112-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859007	**MW-01-33-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859008	**MW-04-38-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859009	**MW-09-25-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859010	**MW-16-50-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859011	**MW-16D-100-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859012	**TRIP BLANKS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92290859013	**EB-032116**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-100-HS **Lab ID: 92290859001** Collected: 03/21/16 07:45 Received: 03/22/16 09:40 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		03/25/16 04:15	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 04:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 04:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 04:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 04:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 04:15	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 04:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 04:15	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 04:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 04:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 04:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 04:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 04:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 04:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 04:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 04:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 04:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 04:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 04:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 04:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/25/16 04:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 04:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/25/16 04:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 04:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 04:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 04:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 04:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 04:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 04:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 04:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 04:15	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 04:15	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 04:15	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 04:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 04:15	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 04:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 04:15	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 04:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 04:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 04:15	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 04:15	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 04:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 04:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 04:15	79-34-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-100-HS **Lab ID: 92290859001** Collected: 03/21/16 07:45 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 04:15	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 04:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/25/16 04:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 04:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 04:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 04:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 04:15	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 04:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 04:15	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 04:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 04:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 04:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	70-130	1		03/25/16 04:15	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/25/16 04:15	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		03/25/16 04:15	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		03/22/16 19:41	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		03/22/16 19:41	17060-07-0	
Toluene-d8 (S)	101	%	50-150	1		03/22/16 19:41	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-18-56-HS **Lab ID: 92290859002** Collected: 03/21/16 08:00 Received: 03/22/16 09:40 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		03/25/16 02:36	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 02:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 02:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 02:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 02:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 02:36	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 02:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 02:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 02:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 02:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 02:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 02:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 02:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 02:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 02:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 02:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 02:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 02:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 02:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 02:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/25/16 02:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 02:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 02:36	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 02:36	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 02:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 02:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 02:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 02:36	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 02:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 02:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 02:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 02:36	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 02:36	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-18-56-HS **Lab ID: 92290859002** Collected: 03/21/16 08:00 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 02:36	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 02:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/25/16 02:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 02:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 02:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 02:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 02:36	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 02:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 02:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 02:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 02:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 02:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/25/16 02:36	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/25/16 02:36	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		03/25/16 02:36	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		03/22/16 19:59	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	50-150	1		03/22/16 19:59	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		03/22/16 19:59	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-03-25.5-HS **Lab ID: 92290859003** Collected: 03/21/16 08:30 Received: 03/22/16 09:40 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		03/25/16 02:52	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 02:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 02:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 02:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 02:52	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 02:52	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 02:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 02:52	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 02:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 02:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 02:52	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 02:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 02:52	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 02:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 02:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 02:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 02:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 02:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 02:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 02:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/25/16 02:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 02:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:52	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 02:52	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 02:52	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 02:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 02:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 02:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 02:52	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 02:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 02:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 02:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 02:52	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 02:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 02:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 02:52	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-03-25.5-HS **Lab ID: 92290859003** Collected: 03/21/16 08:30 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 02:52	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 02:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/25/16 02:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 02:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 02:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 02:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 02:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 02:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 02:52	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 02:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 02:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 02:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		03/25/16 02:52	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/25/16 02:52	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		03/25/16 02:52	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**3.2**	ug/L	2.0	1		03/22/16 20:18	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	50-150	1		03/22/16 20:18	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		03/22/16 20:18	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-23D-92-HS **Lab ID: 92290859004** Collected: 03/21/16 09:05 Received: 03/22/16 09:40 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		03/25/16 04:32	67-64-1	
Benzene	**4.4**	ug/L	1.0	1		03/25/16 04:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 04:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 04:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 04:32	75-27-4	R1
Bromoform	ND	ug/L	1.0	1		03/25/16 04:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 04:32	74-83-9	M1,R1
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 04:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 04:32	56-23-5	R1
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 04:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 04:32	75-00-3	R1
Chloroform	ND	ug/L	1.0	1		03/25/16 04:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 04:32	74-87-3	M1,R1
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 04:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 04:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 04:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 04:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 04:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 04:32	74-95-3	R1
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 04:32	75-71-8	M1,R1
1,1-Dichloroethane	**39.6**	ug/L	1.0	1		03/25/16 04:32	75-34-3	
1,2-Dichloroethane	**1.9**	ug/L	1.0	1		03/25/16 04:32	107-06-2	
1,1-Dichloroethene	**138**	ug/L	2.0	2		03/25/16 13:23	75-35-4	M1
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 04:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 04:32	156-60-5	M1,R1
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 04:32	78-87-5	R1
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 04:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 04:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 04:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 04:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 04:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 04:32	108-20-3	R1
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 04:32	123-91-1	M1,R1
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 04:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 04:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 04:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 04:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 04:32	75-09-2	R1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 04:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 04:32	1634-04-4	R1
Naphthalene	ND	ug/L	1.0	1		03/25/16 04:32	91-20-3	R1
Styrene	ND	ug/L	1.0	1		03/25/16 04:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 04:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 04:32	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-23D-92-HS **Lab ID: 92290859004** Collected: 03/21/16 09:05 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 04:32	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 04:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 04:32	120-82-1	
1,1,1-Trichloroethane	**25.7**	ug/L	1.0	1		03/25/16 04:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 04:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 04:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 04:32	75-69-4	R1
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 04:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 04:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 04:32	75-01-4	R1
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 04:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 04:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 04:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/25/16 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		03/25/16 04:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/25/16 04:32	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**131**	ug/L	5.0	2.5		03/22/16 20:36	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	50-150	2.5		03/22/16 20:36	17060-07-0	
Toluene-d8 (S)	104	%	50-150	2.5		03/22/16 20:36	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-21D-102-HS **Lab ID: 92290859005** Collected: 03/21/16 10:00 Received: 03/22/16 09:40 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		03/25/16 03:09	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 03:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 03:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 03:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 03:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 03:09	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 03:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 03:09	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 03:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 03:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 03:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 03:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 03:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 03:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 03:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 03:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 03:09	75-71-8	
1,1-Dichloroethane	**2.8**	ug/L	1.0	1		03/25/16 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 03:09	107-06-2	
1,1-Dichloroethene	**20.5**	ug/L	1.0	1		03/25/16 03:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 03:09	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 03:09	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 03:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 03:09	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 03:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 03:09	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 03:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 03:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 03:09	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:09	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-21D-102-HS **Lab ID: 92290859005** Collected: 03/21/16 10:00 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 03:09	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 03:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/25/16 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 03:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 03:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 03:09	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 03:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 03:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 03:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 03:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 03:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		03/25/16 03:09	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/25/16 03:09	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		03/25/16 03:09	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**19.8**	ug/L	2.0	1		03/22/16 21:31	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	50-150	1		03/22/16 21:31	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		03/22/16 21:31	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-1D-112-HS **Lab ID: 92290859006** Collected: 03/21/16 10:15 Received: 03/22/16 09:40 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		03/28/16 19:55	67-64-1	
Benzene	ND	ug/L	1.0	1		03/28/16 19:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/28/16 19:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/28/16 19:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/28/16 19:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/28/16 19:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/28/16 19:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/28/16 19:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/28/16 19:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/28/16 19:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/28/16 19:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/28/16 19:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/28/16 19:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/28/16 19:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/28/16 19:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/28/16 19:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/28/16 19:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/28/16 19:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/28/16 19:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/28/16 19:55	75-71-8	
1,1-Dichloroethane	**18.1**	ug/L	1.0	1		03/28/16 19:55	75-34-3	
1,2-Dichloroethane	**1.9**	ug/L	1.0	1		03/28/16 19:55	107-06-2	
1,1-Dichloroethene	**148**	ug/L	1.0	1		03/28/16 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/28/16 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/28/16 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/28/16 19:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/28/16 19:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/28/16 19:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/28/16 19:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/28/16 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/28/16 19:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/28/16 19:55	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/28/16 19:55	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/28/16 19:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/28/16 19:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/28/16 19:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/28/16 19:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/28/16 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/28/16 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/28/16 19:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/28/16 19:55	91-20-3	
Styrene	ND	ug/L	1.0	1		03/28/16 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/28/16 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/28/16 19:55	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-1D-112-HS **Lab ID: 92290859006** Collected: 03/21/16 10:15 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/28/16 19:55	127-18-4	
Toluene	ND	ug/L	1.0	1		03/28/16 19:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:55	120-82-1	
1,1,1-Trichloroethane	**21.0**	ug/L	1.0	1		03/28/16 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/28/16 19:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/28/16 19:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/28/16 19:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/28/16 19:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/28/16 19:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/28/16 19:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/28/16 19:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/28/16 19:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/28/16 19:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		03/28/16 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/28/16 19:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/28/16 19:55	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**98.9**	ug/L	5.0	2.5		03/22/16 21:49	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%	50-150	2.5		03/22/16 21:49	17060-07-0	
Toluene-d8 (S)	103	%	50-150	2.5		03/22/16 21:49	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-01-33-HS **Lab ID: 92290859007** Collected: 03/21/16 10:35 Received: 03/22/16 09:40 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		03/25/16 03:25	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 03:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 03:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 03:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 03:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 03:25	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 03:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 03:25	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 03:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 03:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 03:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 03:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 03:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 03:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 03:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 03:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 03:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 03:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/25/16 03:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 03:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:25	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 03:25	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 03:25	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 03:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 03:25	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 03:25	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 03:25	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 03:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 03:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 03:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 03:25	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:25	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-01-33-HS **Lab ID: 92290859007** Collected: 03/21/16 10:35 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 03:25	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 03:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/25/16 03:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 03:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 03:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 03:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 03:25	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 03:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 03:25	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 03:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 03:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 03:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		03/25/16 03:25	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		03/25/16 03:25	17060-07-0	
Toluene-d8 (S)	76	%	70-130	1		03/25/16 03:25	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**2.3**	ug/L	2.0	1		03/22/16 22:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%	50-150	1		03/22/16 22:08	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		03/22/16 22:08	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-04-38-HS **Lab ID: 92290859008** Collected: 03/21/16 10:48 Received: 03/22/16 09:40 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		03/25/16 03:42	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 03:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 03:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 03:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 03:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 03:42	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 03:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 03:42	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 03:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 03:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 03:42	75-00-3	
Chloroform	**1.6**	ug/L	1.0	1		03/25/16 03:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 03:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 03:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 03:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 03:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 03:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 03:42	75-71-8	
1,1-Dichloroethane	**422**	ug/L	10.0	10		03/25/16 13:06	75-34-3	
1,2-Dichloroethane	**10.1**	ug/L	1.0	1		03/25/16 03:42	107-06-2	
1,1-Dichloroethene	**1180**	ug/L	10.0	10		03/25/16 13:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:42	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 03:42	108-20-3	
1,4-Dioxane (p-Dioxane)	**984**	ug/L	150	1		03/25/16 03:42	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 03:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 03:42	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 03:42	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 03:42	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 03:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 03:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 03:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 03:42	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 03:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:42	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-04-38-HS **Lab ID: 92290859008** Collected: 03/21/16 10:48 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	**5.3**	ug/L	1.0	1		03/25/16 03:42	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 03:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:42	120-82-1	
1,1,1-Trichloroethane	**58.2**	ug/L	1.0	1		03/25/16 03:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 03:42	79-00-5	
Trichloroethene	**10.9**	ug/L	1.0	1		03/25/16 03:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 03:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 03:42	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 03:42	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 03:42	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 03:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 03:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 03:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		03/25/16 03:42	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/25/16 03:42	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		03/25/16 03:42	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**878**	ug/L	20.0	10		03/24/16 09:40	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	5		03/22/16 22:27	17060-07-0	
Toluene-d8 (S)	103	%	50-150	5		03/22/16 22:27	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-09-25-HS **Lab ID: 92290859009** Collected: 03/21/16 12:02 Received: 03/22/16 09:40 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		03/25/16 03:59	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 03:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 03:59	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 03:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 03:59	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 03:59	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 03:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 03:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 03:59	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 03:59	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 03:59	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 03:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 03:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 03:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 03:59	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 03:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 03:59	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 03:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 03:59	75-71-8	
1,1-Dichloroethane	**4.0**	ug/L	1.0	1		03/25/16 03:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 03:59	107-06-2	
1,1-Dichloroethene	**74.0**	ug/L	1.0	1		03/25/16 03:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 03:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 03:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 03:59	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 03:59	108-20-3	
1,4-Dioxane (p-Dioxane)	**418**	ug/L	150	1		03/25/16 03:59	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 03:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 03:59	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 03:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 03:59	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 03:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 03:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 03:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 03:59	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 03:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 03:59	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-09-25-HS **Lab ID: 92290859009** Collected: 03/21/16 12:02 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 03:59	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 03:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 03:59	120-82-1	
1,1,1-Trichloroethane	**2.1**	ug/L	1.0	1		03/25/16 03:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 03:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 03:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 03:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 03:59	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 03:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 03:59	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 03:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 03:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 03:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		03/25/16 03:59	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/25/16 03:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/25/16 03:59	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**29.9**	ug/L	2.0	1		03/22/16 22:45	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%	50-150	1		03/22/16 22:45	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		03/22/16 22:45	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-16-50-HS **Lab ID: 92290859010** Collected: 03/21/16 12:15 Received: 03/22/16 09:40 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	1250	50		03/28/16 20:45	67-64-1	
Benzene	ND	ug/L	50.0	50		03/28/16 20:45	71-43-2	
Bromobenzene	ND	ug/L	50.0	50		03/28/16 20:45	108-86-1	
Bromochloromethane	ND	ug/L	50.0	50		03/28/16 20:45	74-97-5	
Bromodichloromethane	ND	ug/L	50.0	50		03/28/16 20:45	75-27-4	
Bromoform	ND	ug/L	50.0	50		03/28/16 20:45	75-25-2	
Bromomethane	ND	ug/L	100	50		03/28/16 20:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	50		03/28/16 20:45	78-93-3	
Carbon tetrachloride	ND	ug/L	50.0	50		03/28/16 20:45	56-23-5	
Chlorobenzene	ND	ug/L	50.0	50		03/28/16 20:45	108-90-7	
Chloroethane	**176**	ug/L	50.0	50		03/28/16 20:45	75-00-3	
Chloroform	ND	ug/L	50.0	50		03/28/16 20:45	67-66-3	
Chloromethane	ND	ug/L	50.0	50		03/28/16 20:45	74-87-3	
2-Chlorotoluene	ND	ug/L	50.0	50		03/28/16 20:45	95-49-8	
4-Chlorotoluene	ND	ug/L	50.0	50		03/28/16 20:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	100	50		03/28/16 20:45	96-12-8	
Dibromochloromethane	ND	ug/L	50.0	50		03/28/16 20:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	50		03/28/16 20:45	106-93-4	
Dibromomethane	ND	ug/L	50.0	50		03/28/16 20:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	50		03/28/16 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	50		03/28/16 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	50		03/28/16 20:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	50.0	50		03/28/16 20:45	75-71-8	
1,1-Dichloroethane	**5350**	ug/L	50.0	50		03/28/16 20:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	50		03/28/16 20:45	107-06-2	
1,1-Dichloroethene	**6660**	ug/L	50.0	50		03/28/16 20:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	50		03/28/16 20:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	50		03/28/16 20:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	50.0	50		03/28/16 20:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	50.0	50		03/28/16 20:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	50.0	50		03/28/16 20:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	50.0	50		03/28/16 20:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	50.0	50		03/28/16 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	50.0	50		03/28/16 20:45	10061-02-6	
Diisopropyl ether	ND	ug/L	50.0	50		03/28/16 20:45	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	7500	50		03/28/16 20:45	123-91-1	L2
Ethylbenzene	ND	ug/L	50.0	50		03/28/16 20:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	50		03/28/16 20:45	87-68-3	
2-Hexanone	ND	ug/L	250	50		03/28/16 20:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	50.0	50		03/28/16 20:45	99-87-6	
Methylene Chloride	ND	ug/L	100	50		03/28/16 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	50		03/28/16 20:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	50.0	50		03/28/16 20:45	1634-04-4	
Naphthalene	ND	ug/L	50.0	50		03/28/16 20:45	91-20-3	
Styrene	ND	ug/L	50.0	50		03/28/16 20:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	50		03/28/16 20:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	50.0	50		03/28/16 20:45	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-16-50-HS **Lab ID: 92290859010** Collected: 03/21/16 12:15 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	50.0	50		03/28/16 20:45	127-18-4	
Toluene	ND	ug/L	50.0	50		03/28/16 20:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	50.0	50		03/28/16 20:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	50		03/28/16 20:45	120-82-1	
1,1,1-Trichloroethane	**7410**	ug/L	50.0	50		03/28/16 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	50.0	50		03/28/16 20:45	79-00-5	
Trichloroethene	**68.2**	ug/L	50.0	50		03/28/16 20:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	50		03/28/16 20:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	50.0	50		03/28/16 20:45	96-18-4	
Vinyl acetate	ND	ug/L	100	50		03/28/16 20:45	108-05-4	
Vinyl chloride	ND	ug/L	50.0	50		03/28/16 20:45	75-01-4	
Xylene (Total)	ND	ug/L	100	50		03/28/16 20:45	1330-20-7	
m&p-Xylene	ND	ug/L	100	50		03/28/16 20:45	179601-23-1	
o-Xylene	ND	ug/L	50.0	50		03/28/16 20:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	50		03/28/16 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	50		03/28/16 20:45	17060-07-0	
Toluene-d8 (S)	99	%	70-130	50		03/28/16 20:45	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**903**	ug/L	50.0	25		03/22/16 23:04	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	25		03/22/16 23:04	17060-07-0	
Toluene-d8 (S)	101	%	50-150	25		03/22/16 23:04	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-16D-100-HS **Lab ID: 92290859011** Collected: 03/21/16 12:35 Received: 03/22/16 09:40 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		03/28/16 19:39	67-64-1	
Benzene	ND	ug/L	1.0	1		03/28/16 19:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/28/16 19:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/28/16 19:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/28/16 19:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/28/16 19:39	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/28/16 19:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/28/16 19:39	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/28/16 19:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/28/16 19:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/28/16 19:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/28/16 19:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/28/16 19:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/28/16 19:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/28/16 19:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/28/16 19:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/28/16 19:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/28/16 19:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/28/16 19:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/28/16 19:39	75-71-8	
1,1-Dichloroethane	**59.7**	ug/L	1.0	1		03/28/16 19:39	75-34-3	
1,2-Dichloroethane	**2.8**	ug/L	1.0	1		03/28/16 19:39	107-06-2	
1,1-Dichloroethene	**182**	ug/L	2.0	2		03/25/16 05:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/28/16 19:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/28/16 19:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/28/16 19:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/28/16 19:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/28/16 19:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/28/16 19:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/28/16 19:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/28/16 19:39	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/28/16 19:39	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/28/16 19:39	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/28/16 19:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/28/16 19:39	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/28/16 19:39	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/28/16 19:39	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/28/16 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/28/16 19:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/28/16 19:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/28/16 19:39	91-20-3	
Styrene	ND	ug/L	1.0	1		03/28/16 19:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/28/16 19:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/28/16 19:39	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: MW-16D-100-HS **Lab ID: 92290859011** Collected: 03/21/16 12:35 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/28/16 19:39	127-18-4	
Toluene	ND	ug/L	1.0	1		03/28/16 19:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/28/16 19:39	120-82-1	
1,1,1-Trichloroethane	**27.9**	ug/L	1.0	1		03/28/16 19:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/28/16 19:39	79-00-5	
Trichloroethene	**1.1**	ug/L	1.0	1		03/28/16 19:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/28/16 19:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/28/16 19:39	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/28/16 19:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/28/16 19:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/28/16 19:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/28/16 19:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/28/16 19:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		03/28/16 19:39	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		03/28/16 19:39	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/28/16 19:39	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**92.1**	ug/L	5.0	2.5		03/22/16 23:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	1		03/24/16 09:58	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		03/24/16 09:58	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: TRIP BLANKS **Lab ID: 92290859012** Collected: 03/21/16 00:00 Received: 03/22/16 09:40 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		03/25/16 01:29	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 01:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 01:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 01:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 01:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 01:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 01:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 01:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 01:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 01:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 01:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 01:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 01:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 01:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 01:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 01:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 01:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 01:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 01:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 01:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 01:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 01:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 01:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/25/16 01:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 01:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/25/16 01:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 01:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 01:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 01:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 01:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 01:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 01:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 01:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 01:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 01:29	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 01:29	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 01:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 01:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 01:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 01:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 01:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 01:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 01:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 01:29	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 01:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 01:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 01:29	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: TRIP BLANKS **Lab ID: 92290859012** Collected: 03/21/16 00:00 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 01:29	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 01:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 01:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 01:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/25/16 01:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 01:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 01:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 01:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 01:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 01:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 01:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 01:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 01:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 01:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		03/25/16 01:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/25/16 01:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/25/16 01:29	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		03/24/16 11:56	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		03/24/16 11:56	17060-07-0	
Toluene-d8 (S)	102	%	50-150	1		03/24/16 11:56	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: EB-032116 **Lab ID: 92290859013** Collected: 03/21/16 16:15 Received: 03/22/16 09:40 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		03/25/16 02:02	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/16 02:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/25/16 02:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/25/16 02:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/25/16 02:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/25/16 02:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/25/16 02:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/25/16 02:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/25/16 02:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/25/16 02:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/25/16 02:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/25/16 02:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/25/16 02:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 02:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/25/16 02:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/25/16 02:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/25/16 02:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/25/16 02:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/25/16 02:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/25/16 02:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/25/16 02:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/25/16 02:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/25/16 02:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/25/16 02:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/25/16 02:02	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/25/16 02:02	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/25/16 02:02	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		03/25/16 02:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/25/16 02:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/25/16 02:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/25/16 02:02	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/25/16 02:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/25/16 02:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/25/16 02:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/25/16 02:02	91-20-3	
Styrene	ND	ug/L	1.0	1		03/25/16 02:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 02:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/25/16 02:02	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Sample: EB-032116 **Lab ID: 92290859013** Collected: 03/21/16 16:15 Received: 03/22/16 09:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/25/16 02:02	127-18-4	
Toluene	ND	ug/L	1.0	1		03/25/16 02:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/25/16 02:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/25/16 02:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/25/16 02:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/25/16 02:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/25/16 02:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/25/16 02:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/25/16 02:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/16 02:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/25/16 02:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/25/16 02:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/25/16 02:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/25/16 02:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/25/16 02:02	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		03/25/16 02:02	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		03/22/16 23:59	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	50-150	1		03/22/16 23:59	17060-07-0	
Toluene-d8 (S)	101	%	50-150	1		03/22/16 23:59	2037-26-5	

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

QC Batch: MSV/36119 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92290859001, 92290859002, 92290859003, 92290859004, 92290859005, 92290859007, 92290859008, 92290859009, 92290859012, 92290859013

METHOD BLANK: 1694724 Matrix: Water
Associated Lab Samples: 92290859001, 92290859002, 92290859003, 92290859004, 92290859005, 92290859007, 92290859008, 92290859009, 92290859012, 92290859013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/25/16 00:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/25/16 00:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/25/16 00:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/25/16 00:56	
1,1-Dichloroethane	ug/L	ND	1.0	03/25/16 00:56	
1,1-Dichloroethene	ug/L	ND	1.0	03/25/16 00:56	
1,1-Dichloropropene	ug/L	ND	1.0	03/25/16 00:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/25/16 00:56	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/25/16 00:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/25/16 00:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/25/16 00:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/25/16 00:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/25/16 00:56	
1,2-Dichloroethane	ug/L	ND	1.0	03/25/16 00:56	
1,2-Dichloropropane	ug/L	ND	1.0	03/25/16 00:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/25/16 00:56	
1,3-Dichloropropane	ug/L	ND	1.0	03/25/16 00:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/25/16 00:56	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	03/25/16 00:56	
2,2-Dichloropropane	ug/L	ND	1.0	03/25/16 00:56	
2-Butanone (MEK)	ug/L	ND	5.0	03/25/16 00:56	
2-Chlorotoluene	ug/L	ND	1.0	03/25/16 00:56	
2-Hexanone	ug/L	ND	5.0	03/25/16 00:56	
4-Chlorotoluene	ug/L	ND	1.0	03/25/16 00:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/25/16 00:56	
Acetone	ug/L	ND	25.0	03/25/16 00:56	
Benzene	ug/L	ND	1.0	03/25/16 00:56	
Bromobenzene	ug/L	ND	1.0	03/25/16 00:56	
Bromochloromethane	ug/L	ND	1.0	03/25/16 00:56	
Bromodichloromethane	ug/L	ND	1.0	03/25/16 00:56	
Bromoform	ug/L	ND	1.0	03/25/16 00:56	
Bromomethane	ug/L	ND	2.0	03/25/16 00:56	
Carbon tetrachloride	ug/L	ND	1.0	03/25/16 00:56	
Chlorobenzene	ug/L	ND	1.0	03/25/16 00:56	
Chloroethane	ug/L	ND	1.0	03/25/16 00:56	
Chloroform	ug/L	ND	1.0	03/25/16 00:56	
Chloromethane	ug/L	ND	1.0	03/25/16 00:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/25/16 00:56	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/25/16 00:56	
Dibromochloromethane	ug/L	ND	1.0	03/25/16 00:56	

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

METHOD BLANK: 1694724 Matrix: Water

Associated Lab Samples: 92290859001, 92290859002, 92290859003, 92290859004, 92290859005, 92290859007, 92290859008, 92290859009, 92290859012, 92290859013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	03/25/16 00:56	
Dichlorodifluoromethane	ug/L	ND	1.0	03/25/16 00:56	
Diisopropyl ether	ug/L	ND	1.0	03/25/16 00:56	
Ethylbenzene	ug/L	ND	1.0	03/25/16 00:56	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/25/16 00:56	
m&p-Xylene	ug/L	ND	2.0	03/25/16 00:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/25/16 00:56	
Methylene Chloride	ug/L	ND	2.0	03/25/16 00:56	
Naphthalene	ug/L	ND	1.0	03/25/16 00:56	
o-Xylene	ug/L	ND	1.0	03/25/16 00:56	
p-Isopropyltoluene	ug/L	ND	1.0	03/25/16 00:56	
Styrene	ug/L	ND	1.0	03/25/16 00:56	
Tetrachloroethene	ug/L	ND	1.0	03/25/16 00:56	
Toluene	ug/L	ND	1.0	03/25/16 00:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/25/16 00:56	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/25/16 00:56	
Trichloroethene	ug/L	ND	1.0	03/25/16 00:56	
Trichlorofluoromethane	ug/L	ND	1.0	03/25/16 00:56	
Vinyl acetate	ug/L	ND	2.0	03/25/16 00:56	
Vinyl chloride	ug/L	ND	1.0	03/25/16 00:56	
Xylene (Total)	ug/L	ND	2.0	03/25/16 00:56	
1,2-Dichloroethane-d4 (S)	%	100	70-130	03/25/16 00:56	
4-Bromofluorobenzene (S)	%	106	70-130	03/25/16 00:56	
Toluene-d8 (S)	%	106	70-130	03/25/16 00:56	

LABORATORY CONTROL SAMPLE: 1694725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.4	105	70-130	
1,1,1-Trichloroethane	ug/L	50	52.0	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.6	93	70-130	
1,1,2-Trichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethene	ug/L	50	46.4	93	70-132	
1,1-Dichloropropene	ug/L	50	54.1	108	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.4	99	70-135	
1,2,3-Trichloropropane	ug/L	50	45.4	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	47.6	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	61.0	122	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	49.8	100	70-130	
1,2-Dichloropropane	ug/L	50	48.6	97	70-130	

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

LABORATORY CONTROL SAMPLE: 1694725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.3	107	70-130	
1,3-Dichloropropane	ug/L	50	58.1	116	70-130	
1,4-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	1150	115	71-125	
2,2-Dichloropropane	ug/L	50	50.6	101	58-145	
2-Butanone (MEK)	ug/L	100	89.6	90	70-145	
2-Chlorotoluene	ug/L	50	45.8	92	70-130	
2-Hexanone	ug/L	100	98.2	98	70-144	
4-Chlorotoluene	ug/L	50	52.3	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.0	98	70-140	
Acetone	ug/L	100	91.8	92	50-175	
Benzene	ug/L	50	44.7	89	70-130	
Bromobenzene	ug/L	50	52.0	104	70-130	
Bromochloromethane	ug/L	50	53.1	106	70-130	
Bromodichloromethane	ug/L	50	51.3	103	70-130	
Bromoform	ug/L	50	43.9	88	70-130	
Bromomethane	ug/L	50	44.6	89	54-130	
Carbon tetrachloride	ug/L	50	47.6	95	70-132	
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	50.5	101	64-134	
Chloroform	ug/L	50	50.0	100	70-130	
Chloromethane	ug/L	50	48.5	97	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.8	100	70-130	
Dibromochloromethane	ug/L	50	59.6	119	70-130	
Dibromomethane	ug/L	50	49.0	98	70-131	
Dichlorodifluoromethane	ug/L	50	43.2	86	56-130	
Diisopropyl ether	ug/L	50	52.2	104	70-130	
Ethylbenzene	ug/L	50	50.2	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	99.3	99	70-130	
Methyl-tert-butyl ether	ug/L	50	51.9	104	70-130	
Methylene Chloride	ug/L	50	49.9	100	63-130	
Naphthalene	ug/L	50	46.2	92	70-138	
o-Xylene	ug/L	50	44.5	89	70-130	
p-Isopropyltoluene	ug/L	50	51.1	102	70-130	
Styrene	ug/L	50	46.9	94	70-130	
Tetrachloroethene	ug/L	50	56.3	113	70-130	
Toluene	ug/L	50	48.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	70-132	
Trichloroethene	ug/L	50	47.8	96	70-130	
Trichlorofluoromethane	ug/L	50	44.2	88	62-133	
Vinyl acetate	ug/L	100	113	113	66-157	
Vinyl chloride	ug/L	50	46.5	93	50-150	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

LABORATORY CONTROL SAMPLE: 1694725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694726 1694727

Parameter	Units	92290859004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.8	17.2	114	86	70-130	28	30	
1,1,1-Trichloroethane	ug/L	25.7	20	20	51.8	43.8	130	90	70-130	17	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.7	18.4	109	92	70-130	17	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.1	16.6	98	81	70-130	19	30	
1,1-Dichloroethane	ug/L	39.6	20	20	62.9	53.9	116	71	70-130	15	30	
1,1-Dichloroethene	ug/L	138	20	20	202	157	318	94	70-166	25	30	E,M1
1,1-Dichloropropene	ug/L	ND	20	20	25.5	20.0	127	100	70-130	24	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.5	15.6	98	78	70-130	22	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	18.5	108	92	70-130	16	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.9	15.7	104	78	70-130	29	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.3	17.2	97	86	70-130	12	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.8	16.7	109	83	70-130	26	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.6	17.5	108	87	70-130	21	30	
1,2-Dichloroethane	ug/L	1.9	20	20	23.5	19.1	108	86	70-130	21	30	
1,2-Dichloropropane	ug/L	ND	20	20	23.0	15.5	115	78	70-130	39	30	R1
1,3-Dichlorobenzene	ug/L	ND	20	20	23.1	18.0	116	90	70-130	25	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.8	16.2	109	81	70-130	29	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	17.1	113	85	70-130	27	30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	400	271	572	68	143	70-130	72	30	M1,R1
2,2-Dichloropropane	ug/L	ND	20	20	21.6	16.3	108	81	70-130	28	30	
2-Butanone (MEK)	ug/L	ND	40	40	38.2	34.0	95	85	70-130	12	30	
2-Chlorotoluene	ug/L	ND	20	20	22.5	16.7	113	83	70-130	30	30	
2-Hexanone	ug/L	ND	40	40	38.8	34.6	97	87	70-130	11	30	
4-Chlorotoluene	ug/L	ND	20	20	23.1	17.4	115	87	70-130	28	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	35.9	33.0	90	82	70-130	9	30	
Acetone	ug/L	ND	40	40	42.1	32.0	105	80	70-130	27	30	
Benzene	ug/L	4.4	20	20	25.2	21.1	104	84	70-148	18	30	
Bromobenzene	ug/L	ND	20	20	23.2	18.9	116	94	70-130	21	30	
Bromochloromethane	ug/L	ND	20	20	23.6	18.3	118	91	70-130	25	30	
Bromodichloromethane	ug/L	ND	20	20	22.7	15.9	113	80	70-130	35	30	R1
Bromoform	ug/L	ND	20	20	19.3	15.9	97	79	70-130	20	30	
Bromomethane	ug/L	ND	20	20	20.5	13.6	102	68	70-130	41	30	M1,R1
Carbon tetrachloride	ug/L	ND	20	20	25.1	18.5	126	92	70-130	31	30	R1
Chlorobenzene	ug/L	ND	20	20	23.1	17.4	116	87	70-146	28	30	
Chloroethane	ug/L	ND	20	20	25.7	15.3	129	77	70-130	51	30	R1
Chloroform	ug/L	ND	20	20	25.0	20.0	125	100	70-130	22	30	
Chloromethane	ug/L	ND	20	20	21.3	13.7	107	69	70-130	43	30	M1,R1

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1694726 1694727

Parameter	Units	92290859004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	ND	20	20	25.0	20.3	125	101	70-130	21	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.1	16.8	100	84	70-130	18	30	
Dibromochloromethane	ug/L	ND	20	20	22.3	17.3	111	86	70-130	25	30	
Dibromomethane	ug/L	ND	20	20	22.9	16.0	114	80	70-130	36	30	R1
Dichlorodifluoromethane	ug/L	ND	20	20	19.4	13.0	97	65	70-130	40	30	M1,R1
Diisopropyl ether	ug/L	ND	20	20	25.7	16.7	128	84	70-130	42	30	R1
Ethylbenzene	ug/L	ND	20	20	22.6	17.7	113	88	70-130	24	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.2	17.0	101	85	70-130	17	30	
m&p-Xylene	ug/L	ND	40	40	44.5	33.8	111	84	70-130	27	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	24.5	16.5	120	81	70-130	39	30	R1
Methylene Chloride	ug/L	ND	20	20	24.3	16.6	118	79	70-130	38	30	R1
Naphthalene	ug/L	ND	20	20	19.8	14.1	99	70	70-130	34	30	R1
o-Xylene	ug/L	ND	20	20	21.5	17.3	108	87	70-130	21	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.5	17.9	113	89	70-130	23	30	
Styrene	ug/L	ND	20	20	20.9	17.0	105	85	70-130	21	30	
Tetrachloroethene	ug/L	ND	20	20	22.4	17.4	110	85	70-130	25	30	
Toluene	ug/L	ND	20	20	21.0	15.9	105	79	70-155	28	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	26.8	18.8	134	94	70-130	35	30	M1,R1
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.8	15.6	94	78	70-130	19	30	
Trichloroethene	ug/L	ND	20	20	23.9	17.7	116	85	69-151	30	30	
Trichlorofluoromethane	ug/L	ND	20	20	22.5	16.0	112	80	70-130	34	30	R1
Vinyl acetate	ug/L	ND	40	40	42.1	32.3	105	81	70-130	26	30	
Vinyl chloride	ug/L	ND	20	20	21.9	15.8	110	79	70-130	33	30	R1
1,2-Dichloroethane-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						105	97	70-130			
Toluene-d8 (S)	%						87	88	70-130			

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

QC Batch: MSV/36171 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92290859006, 92290859010, 92290859011

METHOD BLANK: 1696480 Matrix: Water
Associated Lab Samples: 92290859006, 92290859010, 92290859011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 14:41	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/28/16 14:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 14:41	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/28/16 14:41	
1,1-Dichloroethane	ug/L	ND	1.0	03/28/16 14:41	
1,1-Dichloroethene	ug/L	ND	1.0	03/28/16 14:41	
1,1-Dichloropropene	ug/L	ND	1.0	03/28/16 14:41	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/28/16 14:41	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/28/16 14:41	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/28/16 14:41	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/28/16 14:41	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/28/16 14:41	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/28/16 14:41	
1,2-Dichloroethane	ug/L	ND	1.0	03/28/16 14:41	
1,2-Dichloropropane	ug/L	ND	1.0	03/28/16 14:41	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/28/16 14:41	
1,3-Dichloropropane	ug/L	ND	1.0	03/28/16 14:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/28/16 14:41	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	03/28/16 14:41	
2,2-Dichloropropane	ug/L	ND	1.0	03/28/16 14:41	
2-Butanone (MEK)	ug/L	ND	5.0	03/28/16 14:41	
2-Chlorotoluene	ug/L	ND	1.0	03/28/16 14:41	
2-Hexanone	ug/L	ND	5.0	03/28/16 14:41	
4-Chlorotoluene	ug/L	ND	1.0	03/28/16 14:41	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/28/16 14:41	
Acetone	ug/L	ND	25.0	03/28/16 14:41	
Benzene	ug/L	ND	1.0	03/28/16 14:41	
Bromobenzene	ug/L	ND	1.0	03/28/16 14:41	
Bromochloromethane	ug/L	ND	1.0	03/28/16 14:41	
Bromodichloromethane	ug/L	ND	1.0	03/28/16 14:41	
Bromoform	ug/L	ND	1.0	03/28/16 14:41	
Bromomethane	ug/L	ND	2.0	03/28/16 14:41	
Carbon tetrachloride	ug/L	ND	1.0	03/28/16 14:41	
Chlorobenzene	ug/L	ND	1.0	03/28/16 14:41	
Chloroethane	ug/L	ND	1.0	03/28/16 14:41	
Chloroform	ug/L	ND	1.0	03/28/16 14:41	
Chloromethane	ug/L	ND	1.0	03/28/16 14:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 14:41	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 14:41	
Dibromochloromethane	ug/L	ND	1.0	03/28/16 14:41	
Dibromomethane	ug/L	ND	1.0	03/28/16 14:41	

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

METHOD BLANK: 1696480 Matrix: Water
Associated Lab Samples: 92290859006, 92290859010, 92290859011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/28/16 14:41	
Diisopropyl ether	ug/L	ND	1.0	03/28/16 14:41	
Ethylbenzene	ug/L	ND	1.0	03/28/16 14:41	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/28/16 14:41	
m&p-Xylene	ug/L	ND	2.0	03/28/16 14:41	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/28/16 14:41	
Methylene Chloride	ug/L	ND	2.0	03/28/16 14:41	
Naphthalene	ug/L	ND	1.0	03/28/16 14:41	
o-Xylene	ug/L	ND	1.0	03/28/16 14:41	
p-Isopropyltoluene	ug/L	ND	1.0	03/28/16 14:41	
Styrene	ug/L	ND	1.0	03/28/16 14:41	
Tetrachloroethene	ug/L	ND	1.0	03/28/16 14:41	
Toluene	ug/L	ND	1.0	03/28/16 14:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 14:41	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 14:41	
Trichloroethene	ug/L	ND	1.0	03/28/16 14:41	
Trichlorofluoromethane	ug/L	ND	1.0	03/28/16 14:41	
Vinyl acetate	ug/L	ND	2.0	03/28/16 14:41	
Vinyl chloride	ug/L	ND	1.0	03/28/16 14:41	
Xylene (Total)	ug/L	ND	2.0	03/28/16 14:41	
1,2-Dichloroethane-d4 (S)	%	98	70-130	03/28/16 14:41	
4-Bromofluorobenzene (S)	%	96	70-130	03/28/16 14:41	
Toluene-d8 (S)	%	100	70-130	03/28/16 14:41	

LABORATORY CONTROL SAMPLE: 1696481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.2	98	70-130	
1,1,1-Trichloroethane	ug/L	50	47.3	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	47.8	96	70-130	
1,1-Dichloroethene	ug/L	50	48.7	97	70-132	
1,1-Dichloropropene	ug/L	50	49.3	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.3	105	70-135	
1,2,3-Trichloropropane	ug/L	50	49.2	98	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.0	104	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	49.3	99	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	46.9	94	70-130	
1,2-Dichloroethane	ug/L	50	44.5	89	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	70-130	
1,3-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,3-Dichloropropane	ug/L	50	46.8	94	70-130	

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

LABORATORY CONTROL SAMPLE: 1696481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	466	47	71-125	L0
2,2-Dichloropropane	ug/L	50	50.2	100	58-145	
2-Butanone (MEK)	ug/L	100	94.8	95	70-145	
2-Chlorotoluene	ug/L	50	48.2	96	70-130	
2-Hexanone	ug/L	100	93.5	93	70-144	
4-Chlorotoluene	ug/L	50	47.5	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-140	
Acetone	ug/L	100	92.9	93	50-175	
Benzene	ug/L	50	49.3	99	70-130	
Bromobenzene	ug/L	50	47.5	95	70-130	
Bromochloromethane	ug/L	50	47.8	96	70-130	
Bromodichloromethane	ug/L	50	48.4	97	70-130	
Bromoform	ug/L	50	39.0	78	70-130	
Bromomethane	ug/L	50	54.5	109	54-130	
Carbon tetrachloride	ug/L	50	48.5	97	70-132	
Chlorobenzene	ug/L	50	46.9	94	70-130	
Chloroethane	ug/L	50	46.5	93	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	46.0	92	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.6	97	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	70-130	
Dibromochloromethane	ug/L	50	47.4	95	70-130	
Dibromomethane	ug/L	50	49.3	99	70-131	
Dichlorodifluoromethane	ug/L	50	50.0	100	56-130	
Diisopropyl ether	ug/L	50	50.3	101	70-130	
Ethylbenzene	ug/L	50	47.3	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.1	102	70-130	
m&p-Xylene	ug/L	100	93.1	93	70-130	
Methyl-tert-butyl ether	ug/L	50	49.3	99	70-130	
Methylene Chloride	ug/L	50	48.7	97	63-130	
Naphthalene	ug/L	50	51.3	103	70-138	
o-Xylene	ug/L	50	46.1	92	70-130	
p-Isopropyltoluene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	47.4	95	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Toluene	ug/L	50	47.0	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	70-132	
Trichloroethene	ug/L	50	46.6	93	70-130	
Trichlorofluoromethane	ug/L	50	51.2	102	62-133	
Vinyl acetate	ug/L	100	90.4	90	66-157	
Vinyl chloride	ug/L	50	53.2	106	50-150	
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696482 1696483

Parameter	Units	92291503007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.9	20.1	109	101	70-130	8	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.9	20.5	114	103	70-130	11	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.6	20.8	103	104	70-130	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.9	20.8	109	104	70-130	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	22.5	21.0	113	105	70-130	7	30	
1,1-Dichloroethene	ug/L	ND	20	20	23.9	22.5	119	112	70-166	6	30	
1,1-Dichloropropene	ug/L	ND	20	20	23.8	22.2	119	111	70-130	7	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.6	21.6	113	108	70-130	4	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.3	19.9	102	100	70-130	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	22.2	21.8	111	109	70-130	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.3	19.7	97	98	70-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.5	21.2	113	106	70-130	6	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.5	19.9	107	100	70-130	7	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.4	19.6	101	97	70-130	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	23.0	21.1	115	106	70-130	9	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.8	21.5	114	108	70-130	6	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.4	19.9	107	100	70-130	7	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.8	21.4	109	107	70-130	2	30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	400	ND	123J	10	31	70-130		30	M0
2,2-Dichloropropane	ug/L	ND	20	20	21.5	20.0	108	100	70-130	7	30	
2-Butanone (MEK)	ug/L	ND	40	40	36.1	41.2	90	103	70-130	13	30	
2-Chlorotoluene	ug/L	ND	20	20	22.8	21.0	114	105	70-130	8	30	
2-Hexanone	ug/L	ND	40	40	36.9	41.3	92	103	70-130	11	30	
4-Chlorotoluene	ug/L	ND	20	20	21.7	20.4	109	102	70-130	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	41.7	45.4	104	113	70-130	9	30	
Acetone	ug/L	ND	40	40	50.4	57.7	80	99	70-130	14	30	
Benzene	ug/L	ND	20	20	23.5	21.7	117	109	70-148	8	30	
Bromobenzene	ug/L	ND	20	20	22.3	20.5	111	103	70-130	8	30	
Bromochloromethane	ug/L	ND	20	20	21.8	20.8	109	104	70-130	5	30	
Bromodichloromethane	ug/L	ND	20	20	21.5	20.7	108	103	70-130	4	30	
Bromoform	ug/L	ND	20	20	17.9	17.4	89	87	70-130	3	30	
Bromomethane	ug/L	ND	20	20	23.7	25.6	119	128	70-130	8	30	
Carbon tetrachloride	ug/L	ND	20	20	23.3	21.8	116	109	70-130	7	30	
Chlorobenzene	ug/L	ND	20	20	22.3	20.2	112	101	70-146	10	30	
Chloroethane	ug/L	ND	20	20	22.1	21.2	110	106	70-130	4	30	
Chloroform	ug/L	ND	20	20	22.8	22.0	114	110	70-130	3	30	
Chloromethane	ug/L	ND	20	20	21.6	19.4	108	97	70-130	10	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	24.1	21.9	116	105	70-130	10	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.9	20.0	109	100	70-130	9	30	
Dibromochloromethane	ug/L	ND	20	20	20.6	18.4	103	92	70-130	12	30	
Dibromomethane	ug/L	ND	20	20	22.0	20.7	110	103	70-130	6	30	
Dichlorodifluoromethane	ug/L	ND	20	20	21.0	19.7	105	99	70-130	6	30	
Diisopropyl ether	ug/L	ND	20	20	22.8	21.3	114	106	70-130	7	30	
Ethylbenzene	ug/L	ND	20	20	22.5	20.5	113	103	70-130	9	30	

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696482 1696483

Parameter	Units	92291503007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.1	21.3	106	106	70-130	1	30	
m&p-Xylene	ug/L	ND	40	40	43.6	40.3	109	101	70-130	8	30	
Methyl-tert-butyl ether	ug/L	1.5	20	20	23.2	22.7	109	106	70-130	2	30	
Methylene Chloride	ug/L	ND	20	20	22.4	20.6	112	103	70-130	9	30	
Naphthalene	ug/L	ND	20	20	20.6	20.8	103	104	70-130	1	30	
o-Xylene	ug/L	ND	20	20	21.4	19.8	107	99	70-130	7	30	
p-Isopropyltoluene	ug/L	ND	20	20	22.8	21.1	114	105	70-130	8	30	
Styrene	ug/L	ND	20	20	21.6	19.8	108	99	70-130	9	30	
Tetrachloroethene	ug/L	41.4	20	20	68.5	64.9	136	117	70-130	5	30	M1
Toluene	ug/L	ND	20	20	22.5	20.8	112	104	70-155	8	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.5	22.5	117	112	70-130	5	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.9	19.4	105	97	70-130	7	30	
Trichloroethene	ug/L	ND	20	20	22.9	21.7	112	106	69-151	5	30	
Trichlorofluoromethane	ug/L	ND	20	20	24.5	23.1	122	115	70-130	6	30	
Vinyl acetate	ug/L	ND	40	40	35.9	34.8	90	87	70-130	3	30	
Vinyl chloride	ug/L	ND	20	20	24.8	23.7	124	119	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						93	98	70-130			
4-Bromofluorobenzene (S)	%						96	97	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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

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

QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

QC Batch: MSV/36091 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92290859001, 92290859002, 92290859003, 92290859004, 92290859005, 92290859006, 92290859007, 92290859008, 92290859009, 92290859010, 92290859013

METHOD BLANK: 1692348 Matrix: Water
Associated Lab Samples: 92290859001, 92290859002, 92290859003, 92290859004, 92290859005, 92290859006, 92290859007, 92290859008, 92290859009, 92290859010, 92290859013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	03/22/16 17:50	
1,2-Dichloroethane-d4 (S)	%	101	50-150	03/22/16 17:50	
Toluene-d8 (S)	%	103	50-150	03/22/16 17:50	

LABORATORY CONTROL SAMPLE: 1692349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.4	92	71-125	
1,2-Dichloroethane-d4 (S)	%			101	50-150	
Toluene-d8 (S)	%			102	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1692350 1692351

Parameter	Units	92290859004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	131	50	50	173	175	85	88	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						101	101	50-150		150	
Toluene-d8 (S)	%						103	102	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.

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QUALITY CONTROL DATA

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

QC Batch: MSV/36104 | Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. | Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92290859011, 92290859012

METHOD BLANK: 1693815 | Matrix: Water
Associated Lab Samples: 92290859011, 92290859012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	03/24/16 09:21	
1,2-Dichloroethane-d4 (S)	%	102	50-150	03/24/16 09:21	
Toluene-d8 (S)	%	103	50-150	03/24/16 09:21	

LABORATORY CONTROL SAMPLE: 1693816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.2	91	71-125	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			100	50-150	

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.

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QUALIFIERS

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

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, Styrene, and Vinyl chloride.

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KOP-FLEX 3705-29
Pace Project No.: 92290859

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92290859001	**MW-100-HS**	EPA 8260	MSV/36119		
92290859002	**MW-18-56-HS**	EPA 8260	MSV/36119		
92290859003	**MW-03-25.5-HS**	EPA 8260	MSV/36119		
92290859004	**MW-23D-92-HS**	EPA 8260	MSV/36119		
92290859005	**MW-21D-102-HS**	EPA 8260	MSV/36119		
92290859006	**MW-1D-112-HS**	EPA 8260	MSV/36171		
92290859007	**MW-01-33-HS**	EPA 8260	MSV/36119		
92290859008	**MW-04-38-HS**	EPA 8260	MSV/36119		
92290859009	**MW-09-25-HS**	EPA 8260	MSV/36119		
92290859010	**MW-16-50-HS**	EPA 8260	MSV/36171		
92290859011	**MW-16D-100-HS**	EPA 8260	MSV/36171		
92290859012	**TRIP BLANKS**	EPA 8260	MSV/36119		
92290859013	**EB-032116**	EPA 8260	MSV/36119		
92290859001	**MW-100-HS**	EPA 8260B Mod.	MSV/36091		
92290859002	**MW-18-56-HS**	EPA 8260B Mod.	MSV/36091		
92290859003	**MW-03-25.5-HS**	EPA 8260B Mod.	MSV/36091		
92290859004	**MW-23D-92-HS**	EPA 8260B Mod.	MSV/36091		
92290859005	**MW-21D-102-HS**	EPA 8260B Mod.	MSV/36091		
92290859006	**MW-1D-112-HS**	EPA 8260B Mod.	MSV/36091		
92290859007	**MW-01-33-HS**	EPA 8260B Mod.	MSV/36091		
92290859008	**MW-04-38-HS**	EPA 8260B Mod.	MSV/36091		
92290859009	**MW-09-25-HS**	EPA 8260B Mod.	MSV/36091		
92290859010	**MW-16-50-HS**	EPA 8260B Mod.	MSV/36091		
92290859011	**MW-16D-100-HS**	EPA 8260B Mod.	MSV/36104		
92290859012	**TRIP BLANKS**	EPA 8260B Mod.	MSV/36104		
92290859013	**EB-032116**	EPA 8260B Mod.	MSV/36091		

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Sample Condition Upon Receipt

Client Name: WSP

Project #: WO# : 92290859

92290859

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

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

Date/Initials Person Examining Contents: RP 3/22/16

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

Thermometer: ☒ T1505 ☐ ____ **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Correction Factor: 0.0°C **Cooler Temp Corrected (°C):** 2.4°C **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:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☒ No	☐ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: Water				
All containers needing acid/base preservation have been checked?	☐ Yes	☒ No	☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☒ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☐ Yes	☒ No	☐ N/A	
Samples checked for dechlorination	☐ Yes	☒ No	☐ N/A	14.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☒ No	☐ N/A	15.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	16.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: ____ Date/Time: ____

Comments/Resolution: ____

Project Manager SCURF Review: JY **Date:** 3/22/16

Project Manager SRF Review: JY **Date:** 3/23/16

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)

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

2055717

Section A Required Client Information:

Company: WSP
Address: 13530 Dulles Technology Dr Suite 300, Herndon, VA
Email To: Robert.Wallace@WSPgroup.com
Phone: (703) 709-6500 Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Robert.Wallace@WSPgroup.com
Copy To:
Purchase Order No.: 3705-29
Project Name: Kop-Flex
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER MDE

Site Location STATE: MD

Section D Required Client Information

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs (8260)	1,4-Dox. (8260 SIM)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92290859
1	MW-100-HS	W	G	3/21/16	0745				5				X					X	X		001
2	MW-18-56-HS	W	G	3/21/16	0800				5				X					X	X		002
3	MW-03-25.5-HS	W	G	3/21/16	0830				6				X					X	X		003
4	MW-23D-92-HS	W	G	3/21/16	0900				5				X					X	X		004
5	MS/MSD (of MW-23D-92-HS)	W	G	3/21/16	0905				5				X					X	X		004
6	MW-21D-102-HS	W	G	3/21/16	1000				6				X					X	X		005
7	MW-1D-112-HS	W	G	3/21/16	1015				5				X					X	X		006
8	MW-01-33-HS	W	G	3/21/16	1035				6				X					X	X		007
9	MW-04-38-HS	W	G	3/21/16	1048				6				X					X	X		008
10	MW-09-25-HS	W	G	3/21/16	1202				6				X					X	X		009
11	MW-16-50-HS	W	G	3/21/16	1215				6				X					X	X		010
12	MW-16D-100-HS	W	G	3/21/16	1235				6				X					X	X		011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		3/21/16	1630	RP Pace HVL	3-22-16	9:40	2.4	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rob Wallace, Laura Barsauskas

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 3/21/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

2055718

Section A Required Client Information:

Company: WSP
Address: 13530 Dulles Tech. Dr Suite 300, Herndon, VA
Email To: Robert.Wallace@WSPgroup.com
Phone: (703) 709-6500 Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Robert.Wallace@WSPgroup.com
Copy To:
Purchase Order No.: 3705-29
Project Name: Kop Flex
Project Number:

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER MDE

Site Location STATE: MD

Section D Required Client Information

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N) VOCs (8260)	1,4 Dioxane (8260 w/SIM)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92290859
1	TripBlanks	W	—	Lab Provided	—				4				X					X	X		012
2	EB-032116	W	G	3/21/16	1615				6				X					XX	XX		013
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	1630	3/21/16	PP Pace HVL	3-22-16	9:40	2.4	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rob Wallace & Laura Barsanuskas

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/21/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

April 04, 2016

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

RE: Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

Dear Eric Johnson:
Enclosed are the analytical results for sample(s) received by the laboratory on March 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Keith Green, WSP Environmental Strategies

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CERTIFICATIONS

Project:	3705/28 KOP FLEX HANOVER, MD
Pace Project No.:	92291412

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

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SAMPLE SUMMARY

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92291412001	**MW-24D-HS**	Water	03/22/16 13:15	03/25/16 09:55

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SAMPLE ANALYTE COUNT

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92291412001	**MW-24D-HS**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

Sample: MW-24D-HS **Lab ID: 92291412001** Collected: 03/22/16 13:15 Received: 03/25/16 09:55 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	312	12.5		03/28/16 08:34	67-64-1	
Benzene	ND	ug/L	12.5	12.5		03/28/16 08:34	71-43-2	
Bromobenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	108-86-1	
Bromochloromethane	ND	ug/L	12.5	12.5		03/28/16 08:34	74-97-5	
Bromodichloromethane	ND	ug/L	12.5	12.5		03/28/16 08:34	75-27-4	
Bromoform	ND	ug/L	12.5	12.5		03/28/16 08:34	75-25-2	
Bromomethane	ND	ug/L	25.0	12.5		03/28/16 08:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	62.5	12.5		03/28/16 08:34	78-93-3	
Carbon tetrachloride	ND	ug/L	12.5	12.5		03/28/16 08:34	56-23-5	
Chlorobenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	108-90-7	
Chloroethane	ND	ug/L	12.5	12.5		03/28/16 08:34	75-00-3	
Chloroform	ND	ug/L	12.5	12.5		03/28/16 08:34	67-66-3	
Chloromethane	ND	ug/L	12.5	12.5		03/28/16 08:34	74-87-3	
2-Chlorotoluene	ND	ug/L	12.5	12.5		03/28/16 08:34	95-49-8	
4-Chlorotoluene	ND	ug/L	12.5	12.5		03/28/16 08:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	12.5		03/28/16 08:34	96-12-8	
Dibromochloromethane	ND	ug/L	12.5	12.5		03/28/16 08:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	12.5	12.5		03/28/16 08:34	106-93-4	
Dibromomethane	ND	ug/L	12.5	12.5		03/28/16 08:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	12.5	12.5		03/28/16 08:34	75-71-8	
1,1-Dichloroethane	**68.2**	ug/L	12.5	12.5		03/28/16 08:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	12.5	12.5		03/28/16 08:34	107-06-2	
1,1-Dichloroethene	**1280**	ug/L	12.5	12.5		03/28/16 08:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	12.5	12.5		03/28/16 08:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	12.5	12.5		03/28/16 08:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	12.5	12.5		03/28/16 08:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	12.5	12.5		03/28/16 08:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	12.5	12.5		03/28/16 08:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	12.5	12.5		03/28/16 08:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	12.5	12.5		03/28/16 08:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	12.5	12.5		03/28/16 08:34	10061-02-6	
Diisopropyl ether	ND	ug/L	12.5	12.5		03/28/16 08:34	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	1880	12.5		03/28/16 08:34	123-91-1	L2
Ethylbenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	12.5	12.5		03/28/16 08:34	87-68-3	
2-Hexanone	ND	ug/L	62.5	12.5		03/28/16 08:34	591-78-6	
p-Isopropyltoluene	ND	ug/L	12.5	12.5		03/28/16 08:34	99-87-6	
Methylene Chloride	ND	ug/L	25.0	12.5		03/28/16 08:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	62.5	12.5		03/28/16 08:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	12.5	12.5		03/28/16 08:34	1634-04-4	
Naphthalene	ND	ug/L	12.5	12.5		03/28/16 08:34	91-20-3	
Styrene	ND	ug/L	12.5	12.5		03/28/16 08:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	12.5		03/28/16 08:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	12.5		03/28/16 08:34	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

Sample: MW-24D-HS **Lab ID: 92291412001** Collected: 03/22/16 13:15 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	12.5	12.5		03/28/16 08:34	127-18-4	
Toluene	ND	ug/L	12.5	12.5		03/28/16 08:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 08:34	120-82-1	
1,1,1-Trichloroethane	**28.0**	ug/L	12.5	12.5		03/28/16 08:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	12.5	12.5		03/28/16 08:34	79-00-5	
Trichloroethene	ND	ug/L	12.5	12.5		03/28/16 08:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	12.5	12.5		03/28/16 08:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	12.5		03/28/16 08:34	96-18-4	
Vinyl acetate	ND	ug/L	25.0	12.5		03/28/16 08:34	108-05-4	
Vinyl chloride	ND	ug/L	12.5	12.5		03/28/16 08:34	75-01-4	
Xylene (Total)	ND	ug/L	25.0	12.5		03/28/16 08:34	1330-20-7	
m&p-Xylene	ND	ug/L	25.0	12.5		03/28/16 08:34	179601-23-1	
o-Xylene	ND	ug/L	12.5	12.5		03/28/16 08:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	12.5		03/28/16 08:34	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	12.5		03/28/16 08:34	17060-07-0	
Toluene-d8 (S)	99	%	70-130	12.5		03/28/16 08:34	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**452**	ug/L	10.0	5		04/02/16 20:35	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	5		04/02/16 20:35	17060-07-0	
Toluene-d8 (S)	101	%	50-150	5		04/02/16 20:35	2037-26-5	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

QC Batch: MSV/36153
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92291412001

METHOD BLANK: 1696034
Matrix: Water
Associated Lab Samples: 92291412001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 03:02	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/28/16 03:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 03:02	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/28/16 03:02	
1,1-Dichloroethane	ug/L	ND	1.0	03/28/16 03:02	
1,1-Dichloroethene	ug/L	ND	1.0	03/28/16 03:02	
1,1-Dichloropropene	ug/L	ND	1.0	03/28/16 03:02	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/28/16 03:02	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/28/16 03:02	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/28/16 03:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/28/16 03:02	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/28/16 03:02	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/28/16 03:02	
1,2-Dichloroethane	ug/L	ND	1.0	03/28/16 03:02	
1,2-Dichloropropane	ug/L	ND	1.0	03/28/16 03:02	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/28/16 03:02	
1,3-Dichloropropane	ug/L	ND	1.0	03/28/16 03:02	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/28/16 03:02	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	03/28/16 03:02	
2,2-Dichloropropane	ug/L	ND	1.0	03/28/16 03:02	
2-Butanone (MEK)	ug/L	ND	5.0	03/28/16 03:02	
2-Chlorotoluene	ug/L	ND	1.0	03/28/16 03:02	
2-Hexanone	ug/L	ND	5.0	03/28/16 03:02	
4-Chlorotoluene	ug/L	ND	1.0	03/28/16 03:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/28/16 03:02	
Acetone	ug/L	ND	25.0	03/28/16 03:02	
Benzene	ug/L	ND	1.0	03/28/16 03:02	
Bromobenzene	ug/L	ND	1.0	03/28/16 03:02	
Bromochloromethane	ug/L	ND	1.0	03/28/16 03:02	
Bromodichloromethane	ug/L	ND	1.0	03/28/16 03:02	
Bromoform	ug/L	ND	1.0	03/28/16 03:02	
Bromomethane	ug/L	ND	2.0	03/28/16 03:02	
Carbon tetrachloride	ug/L	ND	1.0	03/28/16 03:02	
Chlorobenzene	ug/L	ND	1.0	03/28/16 03:02	
Chloroethane	ug/L	ND	1.0	03/28/16 03:02	
Chloroform	ug/L	ND	1.0	03/28/16 03:02	
Chloromethane	ug/L	ND	1.0	03/28/16 03:02	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 03:02	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 03:02	
Dibromochloromethane	ug/L	ND	1.0	03/28/16 03:02	
Dibromomethane	ug/L	ND	1.0	03/28/16 03:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

METHOD BLANK: 1696034 Matrix: Water
Associated Lab Samples: 92291412001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/28/16 03:02	
Diisopropyl ether	ug/L	ND	1.0	03/28/16 03:02	
Ethylbenzene	ug/L	ND	1.0	03/28/16 03:02	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/28/16 03:02	
m&p-Xylene	ug/L	ND	2.0	03/28/16 03:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/28/16 03:02	
Methylene Chloride	ug/L	ND	2.0	03/28/16 03:02	
Naphthalene	ug/L	ND	1.0	03/28/16 03:02	
o-Xylene	ug/L	ND	1.0	03/28/16 03:02	
p-Isopropyltoluene	ug/L	ND	1.0	03/28/16 03:02	
Styrene	ug/L	ND	1.0	03/28/16 03:02	
Tetrachloroethene	ug/L	ND	1.0	03/28/16 03:02	
Toluene	ug/L	ND	1.0	03/28/16 03:02	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 03:02	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 03:02	
Trichloroethene	ug/L	ND	1.0	03/28/16 03:02	
Trichlorofluoromethane	ug/L	ND	1.0	03/28/16 03:02	
Vinyl acetate	ug/L	ND	2.0	03/28/16 03:02	
Vinyl chloride	ug/L	ND	1.0	03/28/16 03:02	
Xylene (Total)	ug/L	ND	2.0	03/28/16 03:02	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/28/16 03:02	
4-Bromofluorobenzene (S)	%	97	70-130	03/28/16 03:02	
Toluene-d8 (S)	%	100	70-130	03/28/16 03:02	

LABORATORY CONTROL SAMPLE: 1696035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.5	95	70-130	
1,1,1-Trichloroethane	ug/L	50	45.4	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.3	99	70-130	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	44.7	89	70-130	
1,1-Dichloroethene	ug/L	50	46.4	93	70-132	
1,1-Dichloropropene	ug/L	50	47.1	94	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.5	99	70-135	
1,2,3-Trichloropropane	ug/L	50	48.5	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.5	105	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	101	70-130	
1,2-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,2-Dichloroethane	ug/L	50	41.7	83	70-130	
1,2-Dichloropropane	ug/L	50	45.7	91	70-130	
1,3-Dichlorobenzene	ug/L	50	46.6	93	70-130	
1,3-Dichloropropane	ug/L	50	47.1	94	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

LABORATORY CONTROL SAMPLE: 1696035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	46.7	93	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	518	52	71-125	L0
2,2-Dichloropropane	ug/L	50	41.5	83	58-145	
2-Butanone (MEK)	ug/L	100	99.6	100	70-145	
2-Chlorotoluene	ug/L	50	41.9	84	70-130	
2-Hexanone	ug/L	100	100	100	70-144	
4-Chlorotoluene	ug/L	50	45.4	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	70-140	
Acetone	ug/L	100	94.4	94	50-175	
Benzene	ug/L	50	47.3	95	70-130	
Bromobenzene	ug/L	50	45.2	90	70-130	
Bromochloromethane	ug/L	50	46.0	92	70-130	
Bromodichloromethane	ug/L	50	46.9	94	70-130	
Bromoform	ug/L	50	39.0	78	70-130	
Bromomethane	ug/L	50	43.6	87	54-130	
Carbon tetrachloride	ug/L	50	47.7	95	70-132	
Chlorobenzene	ug/L	50	46.0	92	70-130	
Chloroethane	ug/L	50	42.6	85	64-134	
Chloroform	ug/L	50	44.9	90	70-130	
Chloromethane	ug/L	50	40.3	81	64-130	
cis-1,2-Dichloroethene	ug/L	50	45.3	91	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.9	94	70-130	
Dibromochloromethane	ug/L	50	45.7	91	70-130	
Dibromomethane	ug/L	50	48.7	97	70-131	
Dichlorodifluoromethane	ug/L	50	41.9	84	56-130	
Diisopropyl ether	ug/L	50	47.5	95	70-130	
Ethylbenzene	ug/L	50	46.1	92	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.6	93	70-130	
m&p-Xylene	ug/L	100	90.8	91	70-130	
Methyl-tert-butyl ether	ug/L	50	48.2	96	70-130	
Methylene Chloride	ug/L	50	44.4	89	63-130	
Naphthalene	ug/L	50	50.9	102	70-138	
o-Xylene	ug/L	50	45.0	90	70-130	
p-Isopropyltoluene	ug/L	50	46.5	93	70-130	
Styrene	ug/L	50	46.2	92	70-130	
Tetrachloroethene	ug/L	50	46.9	94	70-130	
Toluene	ug/L	50	45.9	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	70-132	
Trichloroethene	ug/L	50	45.7	91	70-130	
Trichlorofluoromethane	ug/L	50	47.5	95	62-133	
Vinyl acetate	ug/L	100	86.9	87	66-157	
Vinyl chloride	ug/L	50	47.7	95	50-150	
Xylene (Total)	ug/L	150	136	91	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

MATRIX SPIKE SAMPLE: 1696036

Parameter	Units	92291474010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	18.4	92	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	20.7	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.1	85	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	18.9	94	70-130	
1,1-Dichloroethane	ug/L	1.9	20	22.3	102	70-130	
1,1-Dichloroethene	ug/L	ND	20	20.9	104	70-166	
1,1-Dichloropropene	ug/L	ND	20	20.7	103	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.4	92	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	17.4	87	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.4	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	15.8	79	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.3	97	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	18.4	92	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.0	89	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.0	100	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	19.9	99	70-130	
1,3-Dichloropropane	ug/L	ND	20	18.1	91	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	18.9	95	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	ND	4	70-130	M0
2,2-Dichloropropane	ug/L	ND	20	15.9	80	70-130	
2-Butanone (MEK)	ug/L	ND	40	30.8	77	70-130	
2-Chlorotoluene	ug/L	ND	20	19.8	99	70-130	
2-Hexanone	ug/L	ND	40	30.9	77	70-130	
4-Chlorotoluene	ug/L	ND	20	19.1	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	35.1	88	70-130	
Acetone	ug/L	ND	40	30.3	76	70-130	
Benzene	ug/L	ND	20	20.1	101	70-148	
Bromobenzene	ug/L	ND	20	19.0	95	70-130	
Bromochloromethane	ug/L	ND	20	20.1	101	70-130	
Bromodichloromethane	ug/L	ND	20	19.2	96	70-130	
Bromoform	ug/L	ND	20	16.0	80	70-130	
Bromomethane	ug/L	ND	20	22.5	113	70-130	
Carbon tetrachloride	ug/L	ND	20	19.5	97	70-130	
Chlorobenzene	ug/L	ND	20	19.0	95	70-146	
Chloroethane	ug/L	ND	20	21.6	108	70-130	
Chloroform	ug/L	ND	20	19.1	96	70-130	
Chloromethane	ug/L	ND	20	18.8	94	70-130	
cis-1,2-Dichloroethene	ug/L	11.6	20	32.9	107	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	18.1	90	70-130	
Dibromochloromethane	ug/L	ND	20	17.7	88	70-130	
Dibromomethane	ug/L	ND	20	19.3	97	70-130	
Dichlorodifluoromethane	ug/L	ND	20	19.9	99	70-130	
Diisopropyl ether	ug/L	ND	20	19.6	98	70-130	
Ethylbenzene	ug/L	ND	20	18.8	93	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.4	92	70-130	
m&p-Xylene	ug/L	ND	40	36.6	90	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.5	98	70-130	

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

QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

MATRIX SPIKE SAMPLE: 1696036

Parameter	Units	92291474010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	20.0	100	70-130	
Naphthalene	ug/L	ND	20	17.3	87	70-130	
o-Xylene	ug/L	0.25J	20	18.0	89	70-130	
p-Isopropyltoluene	ug/L	ND	20	19.2	96	70-130	
Styrene	ug/L	ND	20	17.8	89	70-130	
Tetrachloroethene	ug/L	1.8	20	20.8	95	70-130	
Toluene	ug/L	ND	20	19.3	97	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.7	108	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	17.3	87	70-130	
Trichloroethene	ug/L	3.3	20	22.5	96	69-151	
Trichlorofluoromethane	ug/L	ND	20	21.4	107	70-130	
Vinyl acetate	ug/L	ND	40	26.4	66	70-130	M1
Vinyl chloride	ug/L	ND	20	22.4	112	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1696037

Parameter	Units	92291474012 Result	Dup Result	RPD	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-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
1,4-Dioxane (p-Dioxane)	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	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

SAMPLE DUPLICATE: 1696037

Parameter	Units	92291474012 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	96	1		
4-Bromofluorobenzene (S)	%	98	97	1		
Toluene-d8 (S)	%	100	98	2		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

QC Batch: MSV/36221 | Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. | Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92291412001

METHOD BLANK: 1700673 | Matrix: Water
Associated Lab Samples: 92291412001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/02/16 13:10	
1,2-Dichloroethane-d4 (S)	%	99	50-150	04/02/16 13:10	
Toluene-d8 (S)	%	101	50-150	04/02/16 13:10	

LABORATORY CONTROL SAMPLE: 1700674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.0	95	71-125	
1,2-Dichloroethane-d4 (S)	%			97	50-150	
Toluene-d8 (S)	%			100	50-150	

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QUALIFIERS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

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, Styrene, and Vinyl chloride.

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

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291412

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92291412001	**MW-24D-HS**	EPA 8260	MSV/36153		
92291412001	**MW-24D-HS**	EPA 8260B Mod.	MSV/36221		

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Sample Condition Upon Receipt

Client Name: WSP

Project #: WO# : 92291412

92291412

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

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

Date/Initials Person Examining Contents: AP 3-25-16

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

Thermometer: ☑ T1505 ☐ _____ **Type of Ice:** ☐ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Correction Factor: 0.0°C **Cooler Temp Corrected (°C):** 2.5 **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:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☑ Yes	☐ No	☐ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☑ Yes	☐ No	☐ N/A	
Samples checked for dechlorination	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: JY **Date:** 3/25/16

Project Manager SRF Review: JY **Date:** 3/25/16

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

CHAIN-OF-CUSTODY RECORD

No. 003690 WSP | PARSONS BRINCKERHOFF

WSP | Parsons Brinckerhoff Office Address: 13530 Dulles Technology Drive Suite 300 Herndon, VA 20171

Project Name: Kopflex

WSP | Parsons Brinckerhoff Contact Name: Eric Johnson

Project Location: Hanover, MD

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

Project Number & Task: 3705 / 28

WSP | Parsons Brinckerhoff Contact Phone: 703-709-6500

Sampler(s) Name(s): Molly Long, Chris Cresci

Sampler(s) Signature(s): [signature]

Laboratory Name & Location: PACE, NC

Laboratory Project Manager: Kevin Godwin

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

Requested Analyses & Preservatives

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	VOC	1,4-Dioxane									Sample Comments
MW-24D-HS	AQ	3/22/16			1315	6	X	X									92291412 001

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
[signature]	3/23/16	1700				FedEx	809726874182
Relinquished By (Signature)	**Date**	**Time**	**Received By (Signature)**	**Date**	**Time**	**Number of Packages**	**Custody Seal Number(s)**
			[signature]	3-25-16	9:55	1	

*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)

Enclosure C – Laboratory Analytical Report
January 2016 Sampling Event for Offsite Monitoring Wells

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

January 16, 2016

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

RE: Project: KOP-FLEX
Pace Project No.: 92282305

Dear Eric Johnson:
Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Keith Green, WSP Environmental Strategies

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CERTIFICATIONS

Project:	KOP-FLEX
Pace Project No.:	92282305

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
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: KOP-FLEX
Pace Project No.: 92282305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92282305001	**MW-33-295**	Water	01/04/16 14:35	01/08/16 09:45
92282305002	**MW-33-235**	Water	01/04/16 17:00	01/08/16 09:45
92282305003	**EB-010516**	Water	01/05/16 10:30	01/08/16 09:45
92282305004	**MW-28-210**	Water	01/05/16 13:50	01/08/16 09:45
92282305005	**MW-100**	Water	01/05/16 11:00	01/08/16 09:45
92282305006	**MW-28-45**	Water	01/05/16 15:30	01/08/16 09:45
92282305007	**MW-31-280**	Water	01/06/16 10:40	01/08/16 09:45
92282305008	**MW-35-298**	Water	01/06/16 15:25	01/08/16 09:45
92282305009	**MW-25-40**	Water	01/06/16 18:10	01/08/16 09:45
92282305010	**EB-010716**	Water	01/07/16 08:00	01/08/16 09:45
92282305011	**MW-25-190**	Water	01/07/16 10:35	01/08/16 09:45
92282305012	**MW-25-130**	Water	01/07/16 12:30	01/08/16 09:45
92282305013	**TRIP BLANK**	Water	12/30/15 00:00	01/08/16 09:45

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SAMPLE ANALYTE COUNT

Project: KOP-FLEX
Pace Project No.: 92282305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92282305001	**MW-33-295**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305002	**MW-33-235**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305003	**EB-010516**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305004	**MW-28-210**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305005	**MW-100**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305006	**MW-28-45**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305007	**MW-31-280**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305008	**MW-35-298**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305009	**MW-25-40**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305010	**EB-010716**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305011	**MW-25-190**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305012	**MW-25-130**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92282305013	**TRIP BLANK**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-33-295 **Lab ID: 92282305001** Collected: 01/04/16 14:35 Received: 01/08/16 09:45 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		01/09/16 01:55	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 01:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 01:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 01:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 01:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 01:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 01:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 01:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 01:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 01:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 01:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 01:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 01:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 01:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 01:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 01:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 01:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 01:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 01:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 01:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 01:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 01:55	107-06-2	
1,1-Dichloroethene	**3.7**	ug/L	1.0	1		01/09/16 01:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 01:55	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 01:55	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 01:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 01:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 01:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 01:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 01:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 01:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 01:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 01:55	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 01:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 01:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 01:55	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-33-295 **Lab ID: 92282305001** Collected: 01/04/16 14:35 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 01:55	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 01:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 01:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 01:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 01:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 01:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 01:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 01:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 01:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 01:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 01:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 01:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	70-130	1		01/09/16 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		01/09/16 01:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 01:55	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**7.6**	ug/L	2.0	1		01/12/16 19:14	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	117	%	50-150	1		01/12/16 19:14	17060-07-0	
Toluene-d8 (S)	93	%	50-150	1		01/12/16 19:14	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-33-235 **Lab ID: 92282305002** Collected: 01/04/16 17:00 Received: 01/08/16 09:45 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		01/09/16 02:13	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 02:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 02:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 02:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 02:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 02:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 02:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 02:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 02:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 02:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 02:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 02:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 02:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 02:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 02:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 02:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 02:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 02:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 02:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 02:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 02:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 02:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 02:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 02:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 02:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 02:13	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 02:13	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 02:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 02:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 02:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 02:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 02:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 02:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 02:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 02:13	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 02:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 02:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 02:13	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-33-235 **Lab ID: 92282305002** Collected: 01/04/16 17:00 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 02:13	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 02:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 02:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 02:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 02:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 02:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 02:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 02:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 02:13	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 02:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 02:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 02:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		01/09/16 02:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		01/09/16 02:13	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		01/09/16 02:13	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 16:02	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	130	%	50-150	1		01/11/16 16:02	17060-07-0	
Toluene-d8 (S)	87	%	50-150	1		01/11/16 16:02	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: EB-010516 **Lab ID: 92282305003** Collected: 01/05/16 10:30 Received: 01/08/16 09:45 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		01/09/16 01:21	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 01:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 01:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 01:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 01:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 01:21	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 01:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 01:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 01:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 01:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 01:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 01:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 01:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 01:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 01:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 01:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 01:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 01:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 01:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 01:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 01:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 01:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 01:21	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 01:21	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 01:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 01:21	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 01:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 01:21	99-87-6	
Methylene Chloride	**2.4**	ug/L	2.0	1		01/09/16 01:21	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 01:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 01:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 01:21	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 01:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 01:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 01:21	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: EB-010516 **Lab ID: 92282305003** Collected: 01/05/16 10:30 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 01:21	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 01:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 01:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 01:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 01:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 01:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 01:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 01:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 01:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 01:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 01:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 01:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	109	%	70-130	1		01/09/16 01:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		01/09/16 01:21	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 01:21	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 16:23	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	127	%	50-150	1		01/11/16 16:23	17060-07-0	
Toluene-d8 (S)	89	%	50-150	1		01/11/16 16:23	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-28-210 **Lab ID: 92282305004** Collected: 01/05/16 13:50 Received: 01/08/16 09:45 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		01/09/16 02:30	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 02:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 02:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 02:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 02:30	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 02:30	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 02:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 02:30	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 02:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 02:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 02:30	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 02:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 02:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 02:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 02:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 02:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 02:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 02:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 02:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 02:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 02:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 02:30	107-06-2	
1,1-Dichloroethene	**11.5**	ug/L	1.0	1		01/09/16 02:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 02:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 02:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:30	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 02:30	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 02:30	123-91-1	M1
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 02:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 02:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 02:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 02:30	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 02:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 02:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 02:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 02:30	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 02:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 02:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 02:30	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-28-210 **Lab ID: 92282305004** Collected: 01/05/16 13:50 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 02:30	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 02:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 02:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 02:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 02:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 02:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 02:30	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 02:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 02:30	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 02:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 02:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 02:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	1		01/09/16 02:30	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		01/09/16 02:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 02:30	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**5.5**	ug/L	2.0	1		01/11/16 16:43	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	128	%	50-150	1		01/11/16 16:43	17060-07-0	
Toluene-d8 (S)	86	%	50-150	1		01/11/16 16:43	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-100 **Lab ID: 92282305005** Collected: 01/05/16 11:00 Received: 01/08/16 09:45 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		01/09/16 02:47	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 02:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 02:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 02:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 02:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 02:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 02:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 02:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 02:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 02:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 02:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 02:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 02:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 02:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 02:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 02:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 02:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 02:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 02:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 02:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 02:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 02:47	107-06-2	
1,1-Dichloroethene	**10.3**	ug/L	1.0	1		01/09/16 02:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 02:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 02:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 02:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 02:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 02:47	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 02:47	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 02:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 02:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 02:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 02:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 02:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 02:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 02:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 02:47	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 02:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 02:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 02:47	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-100 **Lab ID: 92282305005** Collected: 01/05/16 11:00 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 02:47	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 02:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 02:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 02:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 02:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 02:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 02:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 02:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 02:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 02:47	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 02:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 02:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 02:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	1		01/09/16 02:47	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		01/09/16 02:47	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 02:47	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**5.5**	ug/L	2.0	1		01/11/16 17:44	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	130	%	50-150	1		01/11/16 17:44	17060-07-0	
Toluene-d8 (S)	88	%	50-150	1		01/11/16 17:44	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-28-45 **Lab ID: 92282305006** Collected: 01/05/16 15:30 Received: 01/08/16 09:45 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		01/09/16 03:04	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 03:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 03:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 03:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 03:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 03:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 03:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 03:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 03:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 03:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 03:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 03:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 03:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 03:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 03:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 03:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 03:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 03:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 03:04	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 03:04	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 03:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 03:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 03:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 03:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 03:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 03:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 03:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 03:04	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 03:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:04	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-28-45 **Lab ID: 92282305006** Collected: 01/05/16 15:30 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 03:04	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 03:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 03:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 03:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 03:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 03:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 03:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 03:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 03:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 03:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		01/09/16 03:04	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/09/16 03:04	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		01/09/16 03:04	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 18:05	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	131	%	50-150	1		01/11/16 18:05	17060-07-0	
Toluene-d8 (S)	85	%	50-150	1		01/11/16 18:05	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-31-280 **Lab ID: 92282305007** Collected: 01/06/16 10:40 Received: 01/08/16 09:45 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		01/09/16 03:21	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 03:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 03:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 03:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 03:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 03:21	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 03:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 03:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 03:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 03:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 03:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 03:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 03:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 03:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 03:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 03:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 03:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 03:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 03:21	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 03:21	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 03:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 03:21	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 03:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 03:21	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 03:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 03:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 03:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 03:21	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 03:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:21	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-31-280 **Lab ID: 92282305007** Collected: 01/06/16 10:40 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 03:21	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 03:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 03:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 03:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 03:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 03:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 03:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 03:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 03:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 03:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	109	%	70-130	1		01/09/16 03:21	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		01/09/16 03:21	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 03:21	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 18:25	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	134	%	50-150	1		01/11/16 18:25	17060-07-0	
Toluene-d8 (S)	86	%	50-150	1		01/11/16 18:25	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-35-298 **Lab ID: 92282305008** Collected: 01/06/16 15:25 Received: 01/08/16 09:45 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		01/09/16 03:38	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 03:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 03:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 03:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 03:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 03:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 03:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 03:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 03:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 03:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 03:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 03:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 03:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 03:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 03:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 03:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 03:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 03:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 03:38	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 03:38	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 03:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 03:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 03:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 03:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 03:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 03:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 03:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 03:38	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 03:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:38	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-35-298 **Lab ID: 92282305008** Collected: 01/06/16 15:25 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 03:38	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 03:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 03:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 03:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 03:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 03:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 03:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 03:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 03:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 03:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		01/09/16 03:38	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		01/09/16 03:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 03:38	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 18:45	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	134	%	50-150	1		01/11/16 18:45	17060-07-0	
Toluene-d8 (S)	89	%	50-150	1		01/11/16 18:45	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-25-40 **Lab ID: 92282305009** Collected: 01/06/16 18:10 Received: 01/08/16 09:45 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		01/09/16 03:56	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 03:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 03:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 03:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 03:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 03:56	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 03:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 03:56	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 03:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 03:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 03:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 03:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 03:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 03:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 03:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 03:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 03:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 03:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 03:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 03:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 03:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 03:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 03:56	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 03:56	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 03:56	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 03:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 03:56	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 03:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 03:56	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 03:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 03:56	108-10-1	
Methyl-tert-butyl ether	**1.4**	ug/L	1.0	1		01/09/16 03:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 03:56	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 03:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 03:56	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-25-40 **Lab ID: 92282305009** Collected: 01/06/16 18:10 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 03:56	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 03:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 03:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 03:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 03:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 03:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 03:56	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 03:56	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 03:56	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 03:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 03:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 03:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	109	%	70-130	1		01/09/16 03:56	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		01/09/16 03:56	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		01/09/16 03:56	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 19:06	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	132	%	50-150	1		01/11/16 19:06	17060-07-0	
Toluene-d8 (S)	86	%	50-150	1		01/11/16 19:06	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: EB-010716 **Lab ID: 92282305010** Collected: 01/07/16 08:00 Received: 01/08/16 09:45 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		01/09/16 01:38	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 01:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 01:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 01:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 01:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 01:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 01:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 01:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 01:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 01:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 01:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 01:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 01:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 01:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 01:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 01:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 01:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 01:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 01:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 01:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 01:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 01:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 01:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 01:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 01:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 01:38	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 01:38	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 01:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 01:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 01:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 01:38	99-87-6	
Methylene Chloride	**2.2**	ug/L	2.0	1		01/09/16 01:38	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 01:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 01:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 01:38	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 01:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 01:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 01:38	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: EB-010716 **Lab ID: 92282305010** Collected: 01/07/16 08:00 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 01:38	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 01:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 01:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 01:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 01:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 01:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 01:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 01:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 01:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 01:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 01:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 01:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 01:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	1		01/09/16 01:38	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		01/09/16 01:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 01:38	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 19:26	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	131	%	50-150	1		01/11/16 19:26	17060-07-0	
Toluene-d8 (S)	88	%	50-150	1		01/11/16 19:26	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-25-190 **Lab ID: 92282305011** Collected: 01/07/16 10:35 Received: 01/08/16 09:45 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		01/09/16 04:13	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 04:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 04:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 04:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 04:13	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 04:13	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 04:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 04:13	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 04:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 04:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 04:13	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 04:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 04:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 04:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 04:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 04:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 04:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 04:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 04:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 04:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 04:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 04:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 04:13	75-71-8	
1,1-Dichloroethane	**11.7**	ug/L	1.0	1		01/09/16 04:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 04:13	107-06-2	
1,1-Dichloroethene	**47.2**	ug/L	1.0	1		01/09/16 04:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 04:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 04:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 04:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 04:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 04:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 04:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 04:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 04:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 04:13	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 04:13	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 04:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 04:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 04:13	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 04:13	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 04:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 04:13	108-10-1	
Methyl-tert-butyl ether	**1.1**	ug/L	1.0	1		01/09/16 04:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 04:13	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 04:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 04:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 04:13	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-25-190 **Lab ID: 92282305011** Collected: 01/07/16 10:35 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 04:13	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 04:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 04:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 04:13	120-82-1	
1,1,1-Trichloroethane	**12.5**	ug/L	1.0	1		01/09/16 04:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 04:13	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 04:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 04:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 04:13	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 04:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 04:13	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 04:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 04:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 04:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	70-130	1		01/09/16 04:13	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		01/09/16 04:13	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		01/09/16 04:13	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**41.7**	ug/L	2.0	1		01/11/16 19:46	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	137	%	50-150	1		01/11/16 19:46	17060-07-0	
Toluene-d8 (S)	88	%	50-150	1		01/11/16 19:46	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-25-130 **Lab ID: 92282305012** Collected: 01/07/16 12:30 Received: 01/08/16 09:45 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		01/09/16 04:30	67-64-1	
Benzene	ND	ug/L	5.0	5		01/09/16 04:30	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		01/09/16 04:30	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		01/09/16 04:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		01/09/16 04:30	75-27-4	
Bromoform	ND	ug/L	5.0	5		01/09/16 04:30	75-25-2	
Bromomethane	ND	ug/L	10.0	5		01/09/16 04:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		01/09/16 04:30	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		01/09/16 04:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		01/09/16 04:30	108-90-7	
Chloroethane	ND	ug/L	5.0	5		01/09/16 04:30	75-00-3	
Chloroform	ND	ug/L	5.0	5		01/09/16 04:30	67-66-3	
Chloromethane	ND	ug/L	5.0	5		01/09/16 04:30	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		01/09/16 04:30	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		01/09/16 04:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		01/09/16 04:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		01/09/16 04:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		01/09/16 04:30	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		01/09/16 04:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		01/09/16 04:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		01/09/16 04:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		01/09/16 04:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		01/09/16 04:30	75-71-8	
1,1-Dichloroethane	**33.4**	ug/L	5.0	5		01/09/16 04:30	75-34-3	
1,2-Dichloroethane	**9.7**	ug/L	5.0	5		01/09/16 04:30	107-06-2	
1,1-Dichloroethene	**800**	ug/L	5.0	5		01/09/16 04:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		01/09/16 04:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		01/09/16 04:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		01/09/16 04:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		01/09/16 04:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		01/09/16 04:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		01/09/16 04:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		01/09/16 04:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		01/09/16 04:30	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		01/09/16 04:30	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	750	5		01/09/16 04:30	123-91-1	
Ethylbenzene	ND	ug/L	5.0	5		01/09/16 04:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		01/09/16 04:30	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		01/09/16 04:30	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		01/09/16 04:30	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		01/09/16 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		01/09/16 04:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		01/09/16 04:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	5		01/09/16 04:30	91-20-3	
Styrene	ND	ug/L	5.0	5		01/09/16 04:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		01/09/16 04:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		01/09/16 04:30	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: MW-25-130 **Lab ID: 92282305012** Collected: 01/07/16 12:30 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	5.0	5		01/09/16 04:30	127-18-4	
Toluene	ND	ug/L	5.0	5		01/09/16 04:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		01/09/16 04:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		01/09/16 04:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		01/09/16 04:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		01/09/16 04:30	79-00-5	
Trichloroethene	**6.1**	ug/L	5.0	5		01/09/16 04:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		01/09/16 04:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		01/09/16 04:30	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		01/09/16 04:30	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		01/09/16 04:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	5		01/09/16 04:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		01/09/16 04:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		01/09/16 04:30	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	70-130	5		01/09/16 04:30	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	5		01/09/16 04:30	17060-07-0	
Toluene-d8 (S)	97	%	70-130	5		01/09/16 04:30	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**398**	ug/L	10.0	5		01/11/16 20:06	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	141	%	50-150	5		01/11/16 20:06	17060-07-0	
Toluene-d8 (S)	86	%	50-150	5		01/11/16 20:06	2037-26-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: TRIP BLANK **Lab ID: 92282305013** Collected: 12/30/15 00:00 Received: 01/08/16 09:45 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		01/09/16 00:47	67-64-1	
Benzene	ND	ug/L	1.0	1		01/09/16 00:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/09/16 00:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/09/16 00:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/16 00:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/16 00:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		01/09/16 00:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		01/09/16 00:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/16 00:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/09/16 00:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/09/16 00:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/16 00:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/09/16 00:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 00:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/09/16 00:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		01/09/16 00:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/09/16 00:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/09/16 00:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/09/16 00:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 00:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 00:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/16 00:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/09/16 00:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/09/16 00:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/16 00:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/09/16 00:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 00:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/16 00:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 00:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/09/16 00:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/09/16 00:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/09/16 00:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 00:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/09/16 00:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		01/09/16 00:47	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		01/09/16 00:47	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		01/09/16 00:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/09/16 00:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		01/09/16 00:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/09/16 00:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		01/09/16 00:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		01/09/16 00:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/09/16 00:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		01/09/16 00:47	91-20-3	
Styrene	ND	ug/L	1.0	1		01/09/16 00:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 00:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/16 00:47	79-34-5	

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ANALYTICAL RESULTS

Project: KOP-FLEX
Pace Project No.: 92282305

Sample: TRIP BLANK **Lab ID: 92282305013** Collected: 12/30/15 00:00 Received: 01/08/16 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		01/09/16 00:47	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/16 00:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 00:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/09/16 00:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/16 00:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/16 00:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/16 00:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/09/16 00:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		01/09/16 00:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		01/09/16 00:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		01/09/16 00:47	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		01/09/16 00:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		01/09/16 00:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		01/09/16 00:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	70-130	1		01/09/16 00:47	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		01/09/16 00:47	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		01/09/16 00:47	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		01/11/16 14:41	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	122	%	50-150	1		01/11/16 14:41	17060-07-0	
Toluene-d8 (S)	89	%	50-150	1		01/11/16 14:41	2037-26-5	

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QUALITY CONTROL DATA

Project: KOP-FLEX
Pace Project No.: 92282305

QC Batch: MSV/35112 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92282305001, 92282305002, 92282305003, 92282305004, 92282305005, 92282305006, 92282305007, 92282305008, 92282305009, 92282305010, 92282305011, 92282305012, 92282305013

METHOD BLANK: 1643896 Matrix: Water
Associated Lab Samples: 92282305001, 92282305002, 92282305003, 92282305004, 92282305005, 92282305006, 92282305007, 92282305008, 92282305009, 92282305010, 92282305011, 92282305012, 92282305013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/09/16 00:13	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/09/16 00:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/09/16 00:13	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/09/16 00:13	
1,1-Dichloroethane	ug/L	ND	1.0	01/09/16 00:13	
1,1-Dichloroethene	ug/L	ND	1.0	01/09/16 00:13	
1,1-Dichloropropene	ug/L	ND	1.0	01/09/16 00:13	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/09/16 00:13	
1,2,3-Trichloropropane	ug/L	ND	1.0	01/09/16 00:13	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/09/16 00:13	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	01/09/16 00:13	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/09/16 00:13	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/09/16 00:13	
1,2-Dichloroethane	ug/L	ND	1.0	01/09/16 00:13	
1,2-Dichloropropane	ug/L	ND	1.0	01/09/16 00:13	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/09/16 00:13	
1,3-Dichloropropane	ug/L	ND	1.0	01/09/16 00:13	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/09/16 00:13	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	01/09/16 00:13	
2,2-Dichloropropane	ug/L	ND	1.0	01/09/16 00:13	
2-Butanone (MEK)	ug/L	ND	5.0	01/09/16 00:13	
2-Chlorotoluene	ug/L	ND	1.0	01/09/16 00:13	
2-Hexanone	ug/L	ND	5.0	01/09/16 00:13	
4-Chlorotoluene	ug/L	ND	1.0	01/09/16 00:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	01/09/16 00:13	
Acetone	ug/L	ND	25.0	01/09/16 00:13	
Benzene	ug/L	ND	1.0	01/09/16 00:13	
Bromobenzene	ug/L	ND	1.0	01/09/16 00:13	
Bromochloromethane	ug/L	ND	1.0	01/09/16 00:13	
Bromodichloromethane	ug/L	ND	1.0	01/09/16 00:13	
Bromoform	ug/L	ND	1.0	01/09/16 00:13	
Bromomethane	ug/L	ND	2.0	01/09/16 00:13	
Carbon tetrachloride	ug/L	ND	1.0	01/09/16 00:13	
Chlorobenzene	ug/L	ND	1.0	01/09/16 00:13	
Chloroethane	ug/L	ND	1.0	01/09/16 00:13	
Chloroform	ug/L	ND	1.0	01/09/16 00:13	
Chloromethane	ug/L	ND	1.0	01/09/16 00:13	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/09/16 00:13	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/09/16 00:13	
Dibromochloromethane	ug/L	ND	1.0	01/09/16 00:13	

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.

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QUALITY CONTROL DATA

Project: KOP-FLEX
Pace Project No.: 92282305

METHOD BLANK: 1643896 Matrix: Water

Associated Lab Samples: 92282305001, 92282305002, 92282305003, 92282305004, 92282305005, 92282305006, 92282305007, 92282305008, 92282305009, 92282305010, 92282305011, 92282305012, 92282305013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	01/09/16 00:13	
Dichlorodifluoromethane	ug/L	ND	1.0	01/09/16 00:13	
Diisopropyl ether	ug/L	ND	1.0	01/09/16 00:13	
Ethylbenzene	ug/L	ND	1.0	01/09/16 00:13	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/09/16 00:13	
m&p-Xylene	ug/L	ND	2.0	01/09/16 00:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/09/16 00:13	
Methylene Chloride	ug/L	ND	2.0	01/09/16 00:13	
Naphthalene	ug/L	ND	1.0	01/09/16 00:13	
o-Xylene	ug/L	ND	1.0	01/09/16 00:13	
p-Isopropyltoluene	ug/L	ND	1.0	01/09/16 00:13	
Styrene	ug/L	ND	1.0	01/09/16 00:13	
Tetrachloroethene	ug/L	ND	1.0	01/09/16 00:13	
Toluene	ug/L	ND	1.0	01/09/16 00:13	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/09/16 00:13	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/09/16 00:13	
Trichloroethene	ug/L	ND	1.0	01/09/16 00:13	
Trichlorofluoromethane	ug/L	ND	1.0	01/09/16 00:13	
Vinyl acetate	ug/L	ND	2.0	01/09/16 00:13	
Vinyl chloride	ug/L	ND	1.0	01/09/16 00:13	
Xylene (Total)	ug/L	ND	2.0	01/09/16 00:13	
1,2-Dichloroethane-d4 (S)	%	104	70-130	01/09/16 00:13	
4-Bromofluorobenzene (S)	%	110	70-130	01/09/16 00:13	
Toluene-d8 (S)	%	100	70-130	01/09/16 00:13	

LABORATORY CONTROL SAMPLE: 1643897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	70-130	
1,1,1-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethene	ug/L	50	49.0	98	70-132	
1,1-Dichloropropene	ug/L	50	46.3	93	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.5	111	70-135	
1,2,3-Trichloropropane	ug/L	50	51.1	102	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.2	110	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.4	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.8	104	70-130	
1,2-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,2-Dichloroethane	ug/L	50	48.9	98	70-130	
1,2-Dichloropropane	ug/L	50	47.1	94	70-130	

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QUALITY CONTROL DATA

Project: KOP-FLEX
Pace Project No.: 92282305

LABORATORY CONTROL SAMPLE: 1643897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,3-Dichloropropane	ug/L	50	49.5	99	70-130	
1,4-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	978	98	71-125	
2,2-Dichloropropane	ug/L	50	46.4	93	58-145	
2-Butanone (MEK)	ug/L	100	103	103	70-145	
2-Chlorotoluene	ug/L	50	52.4	105	70-130	
2-Hexanone	ug/L	100	110	110	70-144	
4-Chlorotoluene	ug/L	50	49.7	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-140	
Acetone	ug/L	100	113	113	50-175	
Benzene	ug/L	50	48.6	97	70-130	
Bromobenzene	ug/L	50	51.4	103	70-130	
Bromochloromethane	ug/L	50	50.8	102	70-130	
Bromodichloromethane	ug/L	50	51.6	103	70-130	
Bromoform	ug/L	50	42.9	86	70-130	
Bromomethane	ug/L	50	48.4	97	54-130	
Carbon tetrachloride	ug/L	50	53.9	108	70-132	
Chlorobenzene	ug/L	50	49.5	99	70-130	
Chloroethane	ug/L	50	41.3	83	64-134	
Chloroform	ug/L	50	49.1	98	70-130	
Chloromethane	ug/L	50	48.7	97	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	50.4	101	70-130	
Dibromomethane	ug/L	50	53.2	106	70-131	
Dichlorodifluoromethane	ug/L	50	55.3	111	56-130	
Diisopropyl ether	ug/L	50	50.1	100	70-130	
Ethylbenzene	ug/L	50	49.5	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	63.9	128	70-130	
m&p-Xylene	ug/L	100	98.1	98	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Methylene Chloride	ug/L	50	48.2	96	63-130	
Naphthalene	ug/L	50	54.4	109	70-138	
o-Xylene	ug/L	50	49.9	100	70-130	
p-Isopropyltoluene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	51.3	103	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	48.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.7	101	70-132	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	50.9	102	62-133	
Vinyl acetate	ug/L	100	108	108	66-157	
Vinyl chloride	ug/L	50	49.4	99	50-150	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: KOP-FLEX
Pace Project No.: 92282305

LABORATORY CONTROL SAMPLE: 1643897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1643898 1643899

Parameter	Units	92282305004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.3	22.2	106	111	70-130	4	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.1	22.7	115	114	70-130	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.1	21.1	105	106	70-130	0	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.7	21.9	109	109	70-130	1	30	
1,1-Dichloroethane	ug/L	ND	20	20	22.3	22.2	112	111	70-130	0	30	
1,1-Dichloroethene	ug/L	11.5	20	20	32.8	32.8	106	106	70-166	0	30	
1,1-Dichloropropene	ug/L	ND	20	20	21.9	22.1	110	110	70-130	1	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.0	20.9	105	105	70-130	0	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	20.8	106	104	70-130	2	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.3	21.4	106	107	70-130	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.4	19.9	102	99	70-130	3	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.3	21.6	107	108	70-130	1	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.3	21.0	106	105	70-130	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	20.6	20.3	101	100	70-130	1	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.6	21.1	103	106	70-130	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.9	21.3	109	107	70-130	3	30	
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.5	105	108	70-130	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.9	22.0	109	110	70-130	1	30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	400	272	258	68	65	70-130	5	30	M1
2,2-Dichloropropane	ug/L	ND	20	20	18.0	18.1	90	90	70-130	1	30	
2-Butanone (MEK)	ug/L	ND	40	40	41.8	43.4	105	108	70-130	4	30	
2-Chlorotoluene	ug/L	ND	20	20	21.6	21.5	108	108	70-130	0	30	
2-Hexanone	ug/L	ND	40	40	41.8	42.1	104	105	70-130	1	30	
4-Chlorotoluene	ug/L	ND	20	20	21.4	21.7	107	109	70-130	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	43.4	44.1	108	110	70-130	2	30	
Acetone	ug/L	ND	40	40	44.7	42.6	104	98	70-130	5	30	
Benzene	ug/L	ND	20	20	22.0	22.1	110	110	70-148	0	30	
Bromobenzene	ug/L	ND	20	20	22.3	21.9	112	110	70-130	2	30	
Bromochloromethane	ug/L	ND	20	20	22.8	21.9	114	109	70-130	4	30	
Bromodichloromethane	ug/L	ND	20	20	20.5	21.0	102	105	70-130	3	30	
Bromoform	ug/L	ND	20	20	17.2	17.9	86	90	70-130	4	30	
Bromomethane	ug/L	ND	20	20	16.1	18.6	81	93	70-130	14	30	
Carbon tetrachloride	ug/L	ND	20	20	22.6	22.6	113	113	70-130	0	30	
Chlorobenzene	ug/L	ND	20	20	21.8	21.9	109	109	70-146	0	30	
Chloroethane	ug/L	ND	20	20	23.5	22.3	118	112	70-130	5	30	
Chloroform	ug/L	ND	20	20	21.6	21.9	108	109	70-130	1	30	
Chloromethane	ug/L	ND	20	20	18.1	18.2	91	91	70-130	0	30	

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QUALITY CONTROL DATA

Project: KOP-FLEX
Pace Project No.: 92282305

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1643898 1643899

Parameter	Units	92282305004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.3	21.3	106	107	70-130	0	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.1	20.6	101	103	70-130	2	30	
Dibromochloromethane	ug/L	ND	20	20	20.1	20.9	100	105	70-130	4	30	
Dibromomethane	ug/L	ND	20	20	21.6	22.0	108	110	70-130	2	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.5	20.6	103	103	70-130	1	30	
Diisopropyl ether	ug/L	ND	20	20	21.9	21.3	110	106	70-130	3	30	
Ethylbenzene	ug/L	ND	20	20	21.3	21.8	107	109	70-130	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.3	24.1	122	121	70-130	1	30	
m&p-Xylene	ug/L	ND	40	40	42.0	42.5	105	106	70-130	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.2	22.1	111	111	70-130	1	30	
Methylene Chloride	ug/L	ND	20	20	20.6	20.1	103	101	70-130	2	30	
Naphthalene	ug/L	ND	20	20	21.9	21.0	109	105	70-130	4	30	
o-Xylene	ug/L	ND	20	20	21.0	21.1	105	105	70-130	0	30	
p-Isopropyltoluene	ug/L	ND	20	20	20.5	20.9	103	105	70-130	2	30	
Styrene	ug/L	ND	20	20	20.9	21.1	104	106	70-130	1	30	
Tetrachloroethene	ug/L	ND	20	20	21.7	21.8	108	109	70-130	1	30	
Toluene	ug/L	ND	20	20	21.4	21.8	107	109	70-155	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	21.9	110	110	70-130	0	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.9	20.1	100	101	70-130	1	30	
Trichloroethene	ug/L	ND	20	20	21.6	21.9	108	109	69-151	1	30	
Trichlorofluoromethane	ug/L	ND	20	20	21.2	21.1	106	105	70-130	1	30	
Vinyl acetate	ug/L	ND	40	40	33.6	32.5	84	81	70-130	3	30	
Vinyl chloride	ug/L	ND	20	20	22.0	22.9	110	114	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						97	96	70-130			
4-Bromofluorobenzene (S)	%						103	105	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALITY CONTROL DATA

Project: KOP-FLEX
Pace Project No.: 92282305

QC Batch: MSV/35125 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92282305002, 92282305003, 92282305004, 92282305005, 92282305006, 92282305007, 92282305008, 92282305009, 92282305010, 92282305011, 92282305012, 92282305013

METHOD BLANK: 1644571 Matrix: Water
Associated Lab Samples: 92282305002, 92282305003, 92282305004, 92282305005, 92282305006, 92282305007, 92282305008, 92282305009, 92282305010, 92282305011, 92282305012, 92282305013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	01/11/16 14:01	
1,2-Dichloroethane-d4 (S)	%	120	50-150	01/11/16 14:01	
Toluene-d8 (S)	%	88	50-150	01/11/16 14:01	

LABORATORY CONTROL SAMPLE: 1644572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.3	101	71-125	
1,2-Dichloroethane-d4 (S)	%			115	50-150	
Toluene-d8 (S)	%			89	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1644573 1644574

Parameter	Units	92282305004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	5.5	20	20	24.3	25.4	94	99	50-150	4	30	
1,2-Dichloroethane-d4 (S)	%						130	129	50-150		150	
Toluene-d8 (S)	%						87	86	50-150		150	

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QUALITY CONTROL DATA

Project: KOP-FLEX
Pace Project No.: 92282305

QC Batch: MSV/35136
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92282305001

METHOD BLANK: 1645178
Matrix: Water
Associated Lab Samples: 92282305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	01/12/16 14:49	
1,2-Dichloroethane-d4 (S)	%	105	50-150	01/12/16 14:49	
Toluene-d8 (S)	%	94	50-150	01/12/16 14:49	

LABORATORY CONTROL SAMPLE: 1645179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	21.1	106	71-125	
1,2-Dichloroethane-d4 (S)	%			105	50-150	
Toluene-d8 (S)	%			94	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1645180 1645181

Parameter	Units	50136222003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	21.9	22.5	109	113	50-150	3	30	
1,2-Dichloroethane-d4 (S)	%						114	117	50-150		150	
Toluene-d8 (S)	%						94	92	50-150		150	

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QUALIFIERS

Project: KOP-FLEX
Pace Project No.: 92282305

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, Styrene, and Vinyl chloride.

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: KOP-FLEX
Pace Project No.: 92282305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92282305001	**MW-33-295**	EPA 8260	MSV/35112		
92282305002	**MW-33-235**	EPA 8260	MSV/35112		
92282305003	**EB-010516**	EPA 8260	MSV/35112		
92282305004	**MW-28-210**	EPA 8260	MSV/35112		
92282305005	**MW-100**	EPA 8260	MSV/35112		
92282305006	**MW-28-45**	EPA 8260	MSV/35112		
92282305007	**MW-31-280**	EPA 8260	MSV/35112		
92282305008	**MW-35-298**	EPA 8260	MSV/35112		
92282305009	**MW-25-40**	EPA 8260	MSV/35112		
92282305010	**EB-010716**	EPA 8260	MSV/35112		
92282305011	**MW-25-190**	EPA 8260	MSV/35112		
92282305012	**MW-25-130**	EPA 8260	MSV/35112		
92282305013	**TRIP BLANK**	EPA 8260	MSV/35112		
92282305001	**MW-33-295**	EPA 8260B Mod.	MSV/35136		
92282305002	**MW-33-235**	EPA 8260B Mod.	MSV/35125		
92282305003	**EB-010516**	EPA 8260B Mod.	MSV/35125		
92282305004	**MW-28-210**	EPA 8260B Mod.	MSV/35125		
92282305005	**MW-100**	EPA 8260B Mod.	MSV/35125		
92282305006	**MW-28-45**	EPA 8260B Mod.	MSV/35125		
92282305007	**MW-31-280**	EPA 8260B Mod.	MSV/35125		
92282305008	**MW-35-298**	EPA 8260B Mod.	MSV/35125		
92282305009	**MW-25-40**	EPA 8260B Mod.	MSV/35125		
92282305010	**EB-010716**	EPA 8260B Mod.	MSV/35125		
92282305011	**MW-25-190**	EPA 8260B Mod.	MSV/35125		
92282305012	**MW-25-130**	EPA 8260B Mod.	MSV/35125		
92282305013	**TRIP BLANK**	EPA 8260B Mod.	MSV/35125		

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Pace Analytical®	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: 26OCT2015 Page 1 of 2
	Document No.: **F-CHR-CS-003-rev.17**	Issuing Authority: Pace Huntersville Quality Office

Sample Condition Upon Receipt

Client Name: WSP Env

Project #: **WO# : 92282305**

92282305

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

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

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

Thermometer Used: ☑ T1505 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☑ Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.6 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** 0.0 °C **Date and Initials of Person Examining Contents:** AP 1-8-16

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

If Yes to either question, fill out a Regulated Soil Checklist and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☐ Yes	☐ No	☑ N/A	
Samples checked for dechlorization	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	16.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: DR **Date:** 1-8-16

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

CHAIN-OF-CUSTODY RECORD

No. 003433 WSP | PARSONS BRINCKERHOFF

WSP | Parsons Brinckerhoff Office Address: 13530 Dulles Technology Drive, Suite 300, Herndon, VA 20171

Project Name: Kop-Flex

WSP | Parsons Brinckerhoff Contact Name: Eric Johnson

Project Location: Hanover, MD

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

Project Number & Task: 39196/2

WSP | Parsons Brinckerhoff Contact Phone: 703-709-6500

Sampler(s) Name(s): Matt Richardson, Molly Long

Sampler(s) Signature(s): [signature]

Laboratory Name & Location: PACE, NC

Laboratory Project Manager: Kevin Godwin

Requested Turn-Around-Time: ☑ Standard ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ ___ HR

Requested Analyses & Preservatives

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	8260B	8260B SIM								Sample Comments
MW-33-295	Aq	1/4/16	1435			6	X	X								92282305 001
MW-33-235		1/4/16	1700				X	X								002
EB-010516		1/5/16	1030				X	X								003
MW-28-210		1/5/16	1350				X	X								004
MW-28-210MS		1/5/16	1350				X	X								004
MW-28-210MSD		1/5/16	1350				X	X								004
MW-100		1/5/16	1100				X	X								005
MW-28-45		1/5/16	1530				X	X								006
MW-31-280		1/6/16	1040				X	X								007
MW-35-298		1/6/16	1525				X	X								008
MW-25-40		1/6/16	1810				X	X								009
EB-010716		1/7/16	0800				X	X								010
MW-25-190		1/7/16	1035				X	X								011
MW-25-130		1/7/16	1230			6	X	X								012
Trip Blank		12/30/15				4	X	X								LAB Provided 013

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
[signature]	1/7/16	1730	FED EX	1/7/16	1730	FED EX	8987 5103 9067

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)
			[signature]	1.8.16	9:45	1	02953

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

HVL

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

Enclosure D – Laboratory Analytical Report
March 2016 Sampling Event for Offsite Monitoring Wells

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

April 06, 2016

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

RE: Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Dear Eric Johnson:
Enclosed are the analytical results for sample(s) received by the laboratory on March 25, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Keith Green, WSP Environmental Strategies

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CERTIFICATIONS

Project:	3705/28 KOP FLEX HANOVER, MD
Pace Project No.:	92291414

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

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SAMPLE SUMMARY

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92291414001	**MW-33-235**	Water	03/21/16 11:30	03/25/16 09:55
92291414002	**MW-33-295**	Water	03/21/16 13:40	03/25/16 09:55
92291414003	**MW-31-280**	Water	03/21/16 16:50	03/25/16 09:55
92291414004	**MW-24D**	Water	03/22/16 14:50	03/25/16 09:55
92291414005	**MW-28-45**	Water	03/22/16 17:12	03/25/16 09:55
92291414006	**EB-032116**	Water	03/21/16 15:55	03/25/16 09:55
92291414007	**EB-032216**	Water	03/22/16 15:30	03/25/16 09:55
92291414008	**EB-032316**	Water	03/23/16 08:45	03/25/16 09:55
92291414009	**MW-28-210**	Water	03/23/16 10:50	03/25/16 09:55
92291414010	**MW-25-40**	Water	03/23/16 13:18	03/25/16 09:55
92291414011	**MW-25-190**	Water	03/23/16 14:45	03/25/16 09:55
92291414012	**MW-100**	Water	03/23/16 18:00	03/25/16 09:55
92291414013	**MW-25-130**	Water	03/23/16 17:10	03/25/16 09:55
92291414014	**WC-WATER-032316**	Water	03/23/16 17:15	03/25/16 09:55
92291414015	**TRIP BLANK**	Water	03/21/16 00:00	03/25/16 09:55

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SAMPLE ANALYTE COUNT

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92291414001	**MW-33-235**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414002	**MW-33-295**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414003	**MW-31-280**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414004	**MW-24D**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414005	**MW-28-45**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414006	**EB-032116**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414007	**EB-032216**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414008	**EB-032316**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414009	**MW-28-210**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414010	**MW-25-40**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414011	**MW-25-190**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414012	**MW-100**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414013	**MW-25-130**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414014	**WC-WATER-032316**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92291414015	**TRIP BLANK**	EPA 8260	GAW	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-33-235 **Lab ID: 92291414001** Collected: 03/21/16 11:30 Received: 03/25/16 09:55 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		03/26/16 19:10	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 19:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 19:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 19:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 19:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 19:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 19:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 19:10	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 19:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 19:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 19:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 19:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 19:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 19:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 19:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 19:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 19:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 19:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 19:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 19:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 19:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 19:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 19:10	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 19:10	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 19:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 19:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 19:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 19:10	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 19:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 19:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 19:10	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 19:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 19:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 19:10	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-33-235 **Lab ID: 92291414001** Collected: 03/21/16 11:30 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 19:10	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 19:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 19:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 19:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 19:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 19:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 19:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 19:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 19:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 19:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 19:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/26/16 19:10	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/26/16 19:10	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		03/26/16 19:10	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**3.0**	ug/L	2.0	1		04/02/16 20:53	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		04/02/16 20:53	17060-07-0	
Toluene-d8 (S)	102	%	50-150	1		04/02/16 20:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-33-295 **Lab ID: 92291414002** Collected: 03/21/16 13:40 Received: 03/25/16 09:55 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		03/26/16 20:12	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 20:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 20:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 20:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 20:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 20:12	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 20:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 20:12	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 20:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 20:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 20:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 20:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 20:12	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 20:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 20:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 20:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 20:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 20:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 20:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 20:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 20:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 20:12	107-06-2	
1,1-Dichloroethene	**3.9**	ug/L	1.0	1		03/26/16 20:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 20:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 20:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:12	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 20:12	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 20:12	123-91-1	L3
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 20:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 20:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 20:12	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 20:12	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 20:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 20:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 20:12	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 20:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 20:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 20:12	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-33-295 **Lab ID: 92291414002** Collected: 03/21/16 13:40 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 20:12	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 20:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 20:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 20:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 20:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 20:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 20:12	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 20:12	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 20:12	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 20:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 20:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 20:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		03/26/16 20:12	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		03/26/16 20:12	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		03/26/16 20:12	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**7.8**	ug/L	2.0	1		04/02/16 21:12	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	1		04/02/16 21:12	17060-07-0	
Toluene-d8 (S)	103	%	50-150	1		04/02/16 21:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-31-280 **Lab ID: 92291414003** Collected: 03/21/16 16:50 Received: 03/25/16 09:55 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		03/26/16 19:27	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 19:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 19:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 19:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 19:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 19:27	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 19:27	74-83-9	M1
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 19:27	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 19:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 19:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 19:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 19:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 19:27	74-87-3	M1
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 19:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 19:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 19:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 19:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 19:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 19:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 19:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:27	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 19:27	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 19:27	123-91-1	L2,M0
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 19:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 19:27	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 19:27	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 19:27	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 19:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 19:27	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 19:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 19:27	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-31-280 **Lab ID: 92291414003** Collected: 03/21/16 16:50 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 19:27	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 19:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 19:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 19:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 19:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 19:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 19:27	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 19:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 19:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 19:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/26/16 19:27	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/26/16 19:27	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/26/16 19:27	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/02/16 19:39	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		04/02/16 19:39	17060-07-0	
Toluene-d8 (S)	101	%	50-150	1		04/02/16 19:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-24D **Lab ID: 92291414004** Collected: 03/22/16 14:50 Received: 03/25/16 09:55 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	312	12.5		03/28/16 19:56	67-64-1	
Benzene	ND	ug/L	12.5	12.5		03/28/16 19:56	71-43-2	
Bromobenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	108-86-1	
Bromochloromethane	ND	ug/L	12.5	12.5		03/28/16 19:56	74-97-5	
Bromodichloromethane	ND	ug/L	12.5	12.5		03/28/16 19:56	75-27-4	
Bromoform	ND	ug/L	12.5	12.5		03/28/16 19:56	75-25-2	
Bromomethane	ND	ug/L	25.0	12.5		03/28/16 19:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	62.5	12.5		03/28/16 19:56	78-93-3	
Carbon tetrachloride	ND	ug/L	12.5	12.5		03/28/16 19:56	56-23-5	
Chlorobenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	108-90-7	
Chloroethane	ND	ug/L	12.5	12.5		03/28/16 19:56	75-00-3	
Chloroform	ND	ug/L	12.5	12.5		03/28/16 19:56	67-66-3	
Chloromethane	ND	ug/L	12.5	12.5		03/28/16 19:56	74-87-3	
2-Chlorotoluene	ND	ug/L	12.5	12.5		03/28/16 19:56	95-49-8	
4-Chlorotoluene	ND	ug/L	12.5	12.5		03/28/16 19:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	12.5		03/28/16 19:56	96-12-8	
Dibromochloromethane	ND	ug/L	12.5	12.5		03/28/16 19:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	12.5	12.5		03/28/16 19:56	106-93-4	
Dibromomethane	ND	ug/L	12.5	12.5		03/28/16 19:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	12.5	12.5		03/28/16 19:56	75-71-8	
1,1-Dichloroethane	**88.0**	ug/L	12.5	12.5		03/28/16 19:56	75-34-3	
1,2-Dichloroethane	**15.7**	ug/L	12.5	12.5		03/28/16 19:56	107-06-2	
1,1-Dichloroethene	**1780**	ug/L	12.5	12.5		03/28/16 19:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	12.5	12.5		03/28/16 19:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	12.5	12.5		03/28/16 19:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	12.5	12.5		03/28/16 19:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	12.5	12.5		03/28/16 19:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	12.5	12.5		03/28/16 19:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	12.5	12.5		03/28/16 19:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	12.5	12.5		03/28/16 19:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	12.5	12.5		03/28/16 19:56	10061-02-6	
Diisopropyl ether	ND	ug/L	12.5	12.5		03/28/16 19:56	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	1880	12.5		03/28/16 19:56	123-91-1	L2
Ethylbenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	12.5	12.5		03/28/16 19:56	87-68-3	
2-Hexanone	ND	ug/L	62.5	12.5		03/28/16 19:56	591-78-6	
p-Isopropyltoluene	ND	ug/L	12.5	12.5		03/28/16 19:56	99-87-6	
Methylene Chloride	**39.4**	ug/L	25.0	12.5		03/28/16 19:56	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	62.5	12.5		03/28/16 19:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	12.5	12.5		03/28/16 19:56	1634-04-4	
Naphthalene	ND	ug/L	12.5	12.5		03/28/16 19:56	91-20-3	
Styrene	ND	ug/L	12.5	12.5		03/28/16 19:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	12.5		03/28/16 19:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	12.5		03/28/16 19:56	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-24D **Lab ID: 92291414004** Collected: 03/22/16 14:50 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	12.5	12.5		03/28/16 19:56	127-18-4	
Toluene	ND	ug/L	12.5	12.5		03/28/16 19:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	12.5	12.5		03/28/16 19:56	120-82-1	
1,1,1-Trichloroethane	**38.6**	ug/L	12.5	12.5		03/28/16 19:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	12.5	12.5		03/28/16 19:56	79-00-5	
Trichloroethene	ND	ug/L	12.5	12.5		03/28/16 19:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	12.5	12.5		03/28/16 19:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	12.5		03/28/16 19:56	96-18-4	
Vinyl acetate	ND	ug/L	25.0	12.5		03/28/16 19:56	108-05-4	
Vinyl chloride	ND	ug/L	12.5	12.5		03/28/16 19:56	75-01-4	
Xylene (Total)	ND	ug/L	25.0	12.5		03/28/16 19:56	1330-20-7	
m&p-Xylene	ND	ug/L	25.0	12.5		03/28/16 19:56	179601-23-1	
o-Xylene	ND	ug/L	12.5	12.5		03/28/16 19:56	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	12.5		03/28/16 19:56	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	12.5		03/28/16 19:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130	12.5		03/28/16 19:56	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**561**	ug/L	20.0	10		04/02/16 21:30	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	50-150	10		04/02/16 21:30	17060-07-0	
Toluene-d8 (S)	102	%	50-150	10		04/02/16 21:30	2037-26-5	

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(704)875-9092

ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-28-45 **Lab ID: 92291414005** Collected: 03/22/16 17:12 Received: 03/25/16 09:55 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		03/26/16 19:44	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 19:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 19:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 19:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 19:44	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 19:44	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 19:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 19:44	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 19:44	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 19:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 19:44	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 19:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 19:44	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 19:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 19:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 19:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 19:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 19:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 19:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 19:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 19:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 19:44	107-06-2	
1,1-Dichloroethene	**6.2**	ug/L	1.0	1		03/26/16 19:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 19:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 19:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 19:44	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 19:44	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 19:44	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 19:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 19:44	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 19:44	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 19:44	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 19:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 19:44	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 19:44	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 19:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 19:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 19:44	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-28-45 **Lab ID: 92291414005** Collected: 03/22/16 17:12 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 19:44	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 19:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 19:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 19:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 19:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 19:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 19:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 19:44	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 19:44	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 19:44	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 19:44	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 19:44	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 19:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/26/16 19:44	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/26/16 19:44	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/26/16 19:44	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/02/16 21:49	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		04/02/16 21:49	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		04/02/16 21:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: EB-032116 **Lab ID: 92291414006** Collected: 03/21/16 15:55 Received: 03/25/16 09:55 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		03/26/16 16:04	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 16:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 16:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 16:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 16:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 16:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 16:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 16:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 16:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 16:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 16:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 16:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 16:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 16:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 16:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 16:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 16:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 16:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 16:04	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 16:04	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 16:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 16:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 16:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 16:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 16:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 16:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 16:04	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 16:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:04	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: EB-032116 **Lab ID: 92291414006** Collected: 03/21/16 15:55 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 16:04	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 16:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 16:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 16:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 16:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 16:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 16:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 16:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 16:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 16:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		03/26/16 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/26/16 16:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/26/16 16:04	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/02/16 23:58	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		04/02/16 23:58	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		04/02/16 23:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: EB-032216 **Lab ID: 92291414007** Collected: 03/22/16 15:30 Received: 03/25/16 09:55 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		03/26/16 16:21	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 16:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 16:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 16:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 16:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 16:21	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 16:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 16:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 16:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 16:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 16:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 16:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 16:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 16:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 16:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 16:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 16:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 16:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 16:21	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 16:21	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 16:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 16:21	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 16:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 16:21	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 16:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 16:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 16:21	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 16:21	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 16:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:21	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: EB-032216 **Lab ID: 92291414007** Collected: 03/22/16 15:30 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 16:21	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 16:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 16:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 16:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 16:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 16:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 16:21	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 16:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 16:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 16:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		03/26/16 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/26/16 16:21	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/26/16 16:21	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/03/16 00:17	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	50-150	1		04/03/16 00:17	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		04/03/16 00:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: EB-032316 **Lab ID: 92291414008** Collected: 03/23/16 08:45 Received: 03/25/16 09:55 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		03/26/16 16:38	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 16:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 16:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 16:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 16:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 16:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 16:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 16:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 16:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 16:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 16:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 16:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 16:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 16:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 16:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 16:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 16:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 16:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 16:38	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 16:38	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 16:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 16:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 16:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 16:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 16:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 16:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 16:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 16:38	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:38	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: EB-032316 **Lab ID: 92291414008** Collected: 03/23/16 08:45 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 16:38	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 16:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 16:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 16:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 16:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 16:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 16:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 16:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 16:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 16:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		03/26/16 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/26/16 16:38	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		03/26/16 16:38	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/03/16 00:35	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		04/03/16 00:35	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		04/03/16 00:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-28-210 **Lab ID: 92291414009** Collected: 03/23/16 10:50 Received: 03/25/16 09:55 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		03/26/16 20:29	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 20:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 20:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 20:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 20:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 20:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 20:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 20:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 20:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 20:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 20:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 20:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 20:29	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 20:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 20:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 20:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 20:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 20:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 20:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 20:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 20:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 20:29	107-06-2	
1,1-Dichloroethene	**9.1**	ug/L	1.0	1		03/26/16 20:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 20:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 20:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 20:29	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 20:29	123-91-1	L3
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 20:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 20:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 20:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 20:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 20:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 20:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 20:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 20:29	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 20:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 20:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 20:29	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-28-210 **Lab ID: 92291414009** Collected: 03/23/16 10:50 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 20:29	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 20:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 20:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 20:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 20:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 20:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 20:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 20:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 20:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 20:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 20:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 20:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		03/26/16 20:29	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		03/26/16 20:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/26/16 20:29	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**4.0**	ug/L	2.0	1		04/03/16 00:54	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		04/03/16 00:54	17060-07-0	
Toluene-d8 (S)	104	%	50-150	1		04/03/16 00:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-25-40 **Lab ID: 92291414010** Collected: 03/23/16 13:18 Received: 03/25/16 09:55 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		03/26/16 20:45	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 20:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 20:45	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 20:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 20:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 20:45	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 20:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 20:45	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 20:45	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 20:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 20:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 20:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 20:45	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 20:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 20:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 20:45	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 20:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 20:45	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 20:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 20:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 20:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 20:45	107-06-2	
1,1-Dichloroethene	**1.5**	ug/L	1.0	1		03/26/16 20:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 20:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 20:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 20:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 20:45	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 20:45	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 20:45	123-91-1	L3
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 20:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 20:45	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 20:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 20:45	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 20:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 20:45	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 20:45	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 20:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 20:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 20:45	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-25-40 **Lab ID: 92291414010** Collected: 03/23/16 13:18 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 20:45	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 20:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 20:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 20:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 20:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 20:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 20:45	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 20:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 20:45	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 20:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 20:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 20:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		03/26/16 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/26/16 20:45	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/26/16 20:45	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/03/16 01:12	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		04/03/16 01:12	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		04/03/16 01:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-25-190 **Lab ID: 92291414011** Collected: 03/23/16 14:45 Received: 03/25/16 09:55 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		03/26/16 21:02	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 21:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 21:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 21:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 21:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 21:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 21:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 21:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 21:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 21:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 21:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 21:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 21:02	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 21:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 21:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 21:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 21:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 21:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 21:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 21:02	75-71-8	
1,1-Dichloroethane	**10.3**	ug/L	1.0	1		03/26/16 21:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 21:02	107-06-2	
1,1-Dichloroethene	**43.3**	ug/L	1.0	1		03/26/16 21:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 21:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 21:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 21:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 21:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 21:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 21:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 21:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 21:02	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 21:02	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 21:02	123-91-1	L3
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 21:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 21:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 21:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 21:02	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 21:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 21:02	108-10-1	
Methyl-tert-butyl ether	**1.0**	ug/L	1.0	1		03/26/16 21:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 21:02	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 21:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 21:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 21:02	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-25-190 **Lab ID: 92291414011** Collected: 03/23/16 14:45 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 21:02	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 21:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:02	120-82-1	
1,1,1-Trichloroethane	**11.3**	ug/L	1.0	1		03/26/16 21:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 21:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 21:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 21:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 21:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 21:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 21:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 21:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 21:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 21:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		03/26/16 21:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/26/16 21:02	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/26/16 21:02	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**42.2**	ug/L	2.0	1		04/03/16 03:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		04/03/16 03:08	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		04/03/16 03:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-100 **Lab ID: 92291414012** Collected: 03/23/16 18:00 Received: 03/25/16 09:55 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		03/26/16 21:26	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 21:26	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 21:26	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 21:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 21:26	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 21:26	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 21:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 21:26	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 21:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 21:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 21:26	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 21:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 21:26	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 21:26	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 21:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 21:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 21:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 21:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 21:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 21:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 21:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 21:26	107-06-2	
1,1-Dichloroethene	**9.1**	ug/L	1.0	1		03/26/16 21:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 21:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 21:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 21:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 21:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 21:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 21:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 21:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 21:26	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 21:26	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 21:26	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 21:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 21:26	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 21:26	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 21:26	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 21:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 21:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 21:26	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 21:26	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 21:26	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-100 **Lab ID: 92291414012** Collected: 03/23/16 18:00 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 21:26	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 21:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 21:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 21:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 21:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 21:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 21:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 21:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 21:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 21:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 21:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 21:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 21:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		03/26/16 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		03/26/16 21:26	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/26/16 21:26	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**5.5**	ug/L	2.0	1		04/03/16 03:26	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		04/03/16 03:26	17060-07-0	
Toluene-d8 (S)	106	%	50-150	1		04/03/16 03:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-25-130 **Lab ID: 92291414013** Collected: 03/23/16 17:10 Received: 03/25/16 09:55 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		03/26/16 21:53	67-64-1	
Benzene	ND	ug/L	5.0	5		03/26/16 21:53	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		03/26/16 21:53	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		03/26/16 21:53	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		03/26/16 21:53	75-27-4	
Bromoform	ND	ug/L	5.0	5		03/26/16 21:53	75-25-2	
Bromomethane	ND	ug/L	10.0	5		03/26/16 21:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		03/26/16 21:53	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		03/26/16 21:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		03/26/16 21:53	108-90-7	
Chloroethane	ND	ug/L	5.0	5		03/26/16 21:53	75-00-3	
Chloroform	ND	ug/L	5.0	5		03/26/16 21:53	67-66-3	
Chloromethane	ND	ug/L	5.0	5		03/26/16 21:53	74-87-3	L2
2-Chlorotoluene	ND	ug/L	5.0	5		03/26/16 21:53	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		03/26/16 21:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		03/26/16 21:53	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		03/26/16 21:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		03/26/16 21:53	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		03/26/16 21:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		03/26/16 21:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		03/26/16 21:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		03/26/16 21:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		03/26/16 21:53	75-71-8	
1,1-Dichloroethane	**24.5**	ug/L	5.0	5		03/26/16 21:53	75-34-3	
1,2-Dichloroethane	**8.0**	ug/L	5.0	5		03/26/16 21:53	107-06-2	
1,1-Dichloroethene	**676**	ug/L	5.0	5		03/26/16 21:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		03/26/16 21:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		03/26/16 21:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		03/26/16 21:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		03/26/16 21:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		03/26/16 21:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		03/26/16 21:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		03/26/16 21:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		03/26/16 21:53	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		03/26/16 21:53	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	750	5		03/26/16 21:53	123-91-1	L1
Ethylbenzene	ND	ug/L	5.0	5		03/26/16 21:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		03/26/16 21:53	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		03/26/16 21:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		03/26/16 21:53	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		03/26/16 21:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		03/26/16 21:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		03/26/16 21:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	5		03/26/16 21:53	91-20-3	
Styrene	ND	ug/L	5.0	5		03/26/16 21:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		03/26/16 21:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		03/26/16 21:53	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: MW-25-130 **Lab ID: 92291414013** Collected: 03/23/16 17:10 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	5.0	5		03/26/16 21:53	127-18-4	
Toluene	ND	ug/L	5.0	5		03/26/16 21:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		03/26/16 21:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		03/26/16 21:53	120-82-1	
1,1,1-Trichloroethane	**26.2**	ug/L	5.0	5		03/26/16 21:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		03/26/16 21:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	5		03/26/16 21:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		03/26/16 21:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		03/26/16 21:53	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		03/26/16 21:53	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		03/26/16 21:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	5		03/26/16 21:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		03/26/16 21:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		03/26/16 21:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	5		03/26/16 21:53	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	5		03/26/16 21:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130	5		03/26/16 21:53	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**302**	ug/L	10.0	5		04/03/16 03:45	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	5		04/03/16 03:45	17060-07-0	
Toluene-d8 (S)	105	%	50-150	5		04/03/16 03:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: WC-WATER-032316 **Lab ID: 92291414014** Collected: 03/23/16 17:15 Received: 03/25/16 09:55 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		03/28/16 10:47	67-64-1	
Benzene	ND	ug/L	1.0	1		03/28/16 10:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/28/16 10:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/28/16 10:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/28/16 10:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/28/16 10:47	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/28/16 10:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/28/16 10:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/28/16 10:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/28/16 10:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/28/16 10:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/28/16 10:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/28/16 10:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/28/16 10:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/28/16 10:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/28/16 10:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/28/16 10:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/28/16 10:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/28/16 10:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 10:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 10:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/28/16 10:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/28/16 10:47	75-71-8	
1,1-Dichloroethane	**4.9**	ug/L	1.0	1		03/28/16 10:47	75-34-3	
1,2-Dichloroethane	**1.1**	ug/L	1.0	1		03/28/16 10:47	107-06-2	
1,1-Dichloroethene	**65.5**	ug/L	1.0	1		03/28/16 10:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/28/16 10:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/28/16 10:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/28/16 10:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/28/16 10:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/28/16 10:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/28/16 10:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/28/16 10:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/28/16 10:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/28/16 10:47	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/28/16 10:47	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/28/16 10:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/28/16 10:47	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/28/16 10:47	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/28/16 10:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/28/16 10:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/28/16 10:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/28/16 10:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/28/16 10:47	91-20-3	
Styrene	ND	ug/L	1.0	1		03/28/16 10:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/28/16 10:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/28/16 10:47	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: WC-WATER-032316 **Lab ID: 92291414014** Collected: 03/23/16 17:15 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/28/16 10:47	127-18-4	
Toluene	ND	ug/L	1.0	1		03/28/16 10:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/28/16 10:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/28/16 10:47	120-82-1	
1,1,1-Trichloroethane	**2.8**	ug/L	1.0	1		03/28/16 10:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/28/16 10:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/28/16 10:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/28/16 10:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/28/16 10:47	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/28/16 10:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/28/16 10:47	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/28/16 10:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/28/16 10:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/28/16 10:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		03/28/16 10:47	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/28/16 10:47	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/28/16 10:47	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**53.2**	ug/L	2.0	1		04/03/16 04:03	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		04/03/16 04:03	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		04/03/16 04:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: TRIP BLANK **Lab ID: 92291414015** Collected: 03/21/16 00:00 Received: 03/25/16 09:55 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		03/26/16 16:55	67-64-1	
Benzene	ND	ug/L	1.0	1		03/26/16 16:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		03/26/16 16:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		03/26/16 16:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		03/26/16 16:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		03/26/16 16:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		03/26/16 16:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		03/26/16 16:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		03/26/16 16:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		03/26/16 16:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		03/26/16 16:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		03/26/16 16:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		03/26/16 16:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		03/26/16 16:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		03/26/16 16:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		03/26/16 16:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		03/26/16 16:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		03/26/16 16:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		03/26/16 16:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		03/26/16 16:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		03/26/16 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		03/26/16 16:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		03/26/16 16:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		03/26/16 16:55	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		03/26/16 16:55	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		03/26/16 16:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		03/26/16 16:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		03/26/16 16:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		03/26/16 16:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		03/26/16 16:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		03/26/16 16:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		03/26/16 16:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		03/26/16 16:55	91-20-3	
Styrene	ND	ug/L	1.0	1		03/26/16 16:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		03/26/16 16:55	79-34-5	

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ANALYTICAL RESULTS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Sample: TRIP BLANK **Lab ID: 92291414015** Collected: 03/21/16 00:00 Received: 03/25/16 09:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		03/26/16 16:55	127-18-4	
Toluene	ND	ug/L	1.0	1		03/26/16 16:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		03/26/16 16:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		03/26/16 16:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		03/26/16 16:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		03/26/16 16:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		03/26/16 16:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		03/26/16 16:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		03/26/16 16:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		03/26/16 16:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		03/26/16 16:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		03/26/16 16:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		03/26/16 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		03/26/16 16:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		03/26/16 16:55	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**2.1**	ug/L	2.0	1		04/03/16 04:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	50-150	1		04/03/16 04:22	17060-07-0	
Toluene-d8 (S)	105	%	50-150	1		04/03/16 04:22	2037-26-5	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

QC Batch: MSV/36144 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92291414001, 92291414003, 92291414005, 92291414006, 92291414007, 92291414008, 92291414012, 92291414015

METHOD BLANK: 1695903 Matrix: Water
Associated Lab Samples: 92291414001, 92291414003, 92291414005, 92291414006, 92291414007, 92291414008, 92291414012, 92291414015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/26/16 11:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/26/16 11:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/26/16 11:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/26/16 11:49	
1,1-Dichloroethane	ug/L	ND	1.0	03/26/16 11:49	
1,1-Dichloroethene	ug/L	ND	1.0	03/26/16 11:49	
1,1-Dichloropropene	ug/L	ND	1.0	03/26/16 11:49	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/26/16 11:49	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/26/16 11:49	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/26/16 11:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/26/16 11:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/26/16 11:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/26/16 11:49	
1,2-Dichloroethane	ug/L	ND	1.0	03/26/16 11:49	
1,2-Dichloropropane	ug/L	ND	1.0	03/26/16 11:49	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/26/16 11:49	
1,3-Dichloropropane	ug/L	ND	1.0	03/26/16 11:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/26/16 11:49	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	03/26/16 11:49	
2,2-Dichloropropane	ug/L	ND	1.0	03/26/16 11:49	
2-Butanone (MEK)	ug/L	ND	5.0	03/26/16 11:49	
2-Chlorotoluene	ug/L	ND	1.0	03/26/16 11:49	
2-Hexanone	ug/L	ND	5.0	03/26/16 11:49	
4-Chlorotoluene	ug/L	ND	1.0	03/26/16 11:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/26/16 11:49	
Acetone	ug/L	ND	25.0	03/26/16 11:49	
Benzene	ug/L	ND	1.0	03/26/16 11:49	
Bromobenzene	ug/L	ND	1.0	03/26/16 11:49	
Bromochloromethane	ug/L	ND	1.0	03/26/16 11:49	
Bromodichloromethane	ug/L	ND	1.0	03/26/16 11:49	
Bromoform	ug/L	ND	1.0	03/26/16 11:49	
Bromomethane	ug/L	ND	2.0	03/26/16 11:49	
Carbon tetrachloride	ug/L	ND	1.0	03/26/16 11:49	
Chlorobenzene	ug/L	ND	1.0	03/26/16 11:49	
Chloroethane	ug/L	ND	1.0	03/26/16 11:49	
Chloroform	ug/L	ND	1.0	03/26/16 11:49	
Chloromethane	ug/L	ND	1.0	03/26/16 11:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/26/16 11:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/26/16 11:49	
Dibromochloromethane	ug/L	ND	1.0	03/26/16 11:49	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

METHOD BLANK: 1695903 Matrix: Water

Associated Lab Samples: 92291414001, 92291414003, 92291414005, 92291414006, 92291414007, 92291414008, 92291414012, 92291414015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	03/26/16 11:49	
Dichlorodifluoromethane	ug/L	ND	1.0	03/26/16 11:49	
Diisopropyl ether	ug/L	ND	1.0	03/26/16 11:49	
Ethylbenzene	ug/L	ND	1.0	03/26/16 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/26/16 11:49	
m&p-Xylene	ug/L	ND	2.0	03/26/16 11:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/26/16 11:49	
Methylene Chloride	ug/L	ND	2.0	03/26/16 11:49	
Naphthalene	ug/L	ND	1.0	03/26/16 11:49	
o-Xylene	ug/L	ND	1.0	03/26/16 11:49	
p-Isopropyltoluene	ug/L	ND	1.0	03/26/16 11:49	
Styrene	ug/L	ND	1.0	03/26/16 11:49	
Tetrachloroethene	ug/L	ND	1.0	03/26/16 11:49	
Toluene	ug/L	ND	1.0	03/26/16 11:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/26/16 11:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/26/16 11:49	
Trichloroethene	ug/L	ND	1.0	03/26/16 11:49	
Trichlorofluoromethane	ug/L	ND	1.0	03/26/16 11:49	
Vinyl acetate	ug/L	ND	2.0	03/26/16 11:49	
Vinyl chloride	ug/L	ND	1.0	03/26/16 11:49	
Xylene (Total)	ug/L	ND	2.0	03/26/16 11:49	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/26/16 11:49	
4-Bromofluorobenzene (S)	%	100	70-130	03/26/16 11:49	
Toluene-d8 (S)	%	99	70-130	03/26/16 11:49	

LABORATORY CONTROL SAMPLE: 1695904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.4	91	70-130	
1,1,1-Trichloroethane	ug/L	50	46.1	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	43.6	87	70-130	
1,1,2-Trichloroethane	ug/L	50	44.5	89	70-130	
1,1-Dichloroethane	ug/L	50	43.1	86	70-130	
1,1-Dichloroethene	ug/L	50	47.3	95	70-132	
1,1-Dichloropropene	ug/L	50	46.4	93	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.2	92	70-135	
1,2,3-Trichloropropane	ug/L	50	45.2	90	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	42.3	85	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	46.1	92	70-130	
1,2-Dichlorobenzene	ug/L	50	43.5	87	70-130	
1,2-Dichloroethane	ug/L	50	41.1	82	70-130	
1,2-Dichloropropane	ug/L	50	43.8	88	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

LABORATORY CONTROL SAMPLE: 1695904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	45.5	91	70-130	
1,3-Dichloropropane	ug/L	50	44.4	89	70-130	
1,4-Dichlorobenzene	ug/L	50	45.0	90	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	501	50	71-125	L0
2,2-Dichloropropane	ug/L	50	45.6	91	58-145	
2-Butanone (MEK)	ug/L	100	88.9	89	70-145	
2-Chlorotoluene	ug/L	50	43.8	88	70-130	
2-Hexanone	ug/L	100	88.7	89	70-144	
4-Chlorotoluene	ug/L	50	43.9	88	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.0	92	70-140	
Acetone	ug/L	100	82.3	82	50-175	
Benzene	ug/L	50	46.5	93	70-130	
Bromobenzene	ug/L	50	43.5	87	70-130	
Bromochloromethane	ug/L	50	45.5	91	70-130	
Bromodichloromethane	ug/L	50	43.7	87	70-130	
Bromoform	ug/L	50	41.9	84	70-130	
Bromomethane	ug/L	50	32.4	65	54-130	
Carbon tetrachloride	ug/L	50	48.6	97	70-132	
Chlorobenzene	ug/L	50	45.7	91	70-130	
Chloroethane	ug/L	50	46.0	92	64-134	
Chloroform	ug/L	50	42.8	86	70-130	
Chloromethane	ug/L	50	36.7	73	64-130	
cis-1,2-Dichloroethene	ug/L	50	43.6	87	70-131	
cis-1,3-Dichloropropene	ug/L	50	44.4	89	70-130	
Dibromochloromethane	ug/L	50	44.6	89	70-130	
Dibromomethane	ug/L	50	45.9	92	70-131	
Dichlorodifluoromethane	ug/L	50	43.2	86	56-130	
Diisopropyl ether	ug/L	50	43.0	86	70-130	
Ethylbenzene	ug/L	50	45.1	90	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.2	94	70-130	
m&p-Xylene	ug/L	100	89.2	89	70-130	
Methyl-tert-butyl ether	ug/L	50	43.8	88	70-130	
Methylene Chloride	ug/L	50	44.9	90	63-130	
Naphthalene	ug/L	50	44.9	90	70-138	
o-Xylene	ug/L	50	44.2	88	70-130	
p-Isopropyltoluene	ug/L	50	44.9	90	70-130	
Styrene	ug/L	50	45.2	90	70-130	
Tetrachloroethene	ug/L	50	47.0	94	70-130	
Toluene	ug/L	50	45.6	91	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.3	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	42.5	85	70-132	
Trichloroethene	ug/L	50	46.0	92	70-130	
Trichlorofluoromethane	ug/L	50	46.0	92	62-133	
Vinyl acetate	ug/L	100	94.6	95	66-157	
Vinyl chloride	ug/L	50	45.7	91	50-150	
Xylene (Total)	ug/L	150	133	89	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

LABORATORY CONTROL SAMPLE: 1695904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695905 1695906

Parameter	Units	92291414003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.9	19.2	89	96	70-130	7	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.8	20.2	94	101	70-130	7	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.0	18.4	85	92	70-130	8	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.4	18.7	87	93	70-130	7	30	
1,1-Dichloroethane	ug/L	ND	20	20	17.7	18.9	88	94	70-130	6	30	
1,1-Dichloroethene	ug/L	ND	20	20	19.6	21.2	98	106	70-166	8	30	
1,1-Dichloropropene	ug/L	ND	20	20	18.7	20.4	94	102	70-130	9	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	17.7	18.9	89	94	70-130	6	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	17.4	19.2	87	96	70-130	10	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.0	18.8	85	94	70-130	10	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.8	17.9	79	90	70-130	13	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.0	20.0	90	100	70-130	11	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.0	18.3	85	92	70-130	8	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.9	17.9	84	90	70-130	6	30	
1,2-Dichloropropane	ug/L	ND	20	20	17.5	18.9	88	95	70-130	8	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.4	18.6	87	93	70-130	7	30	
1,3-Dichloropropane	ug/L	ND	20	20	18.1	19.2	91	96	70-130	6	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.2	18.9	86	94	70-130	9	30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	400	ND	181	0	45	70-130		30	M0
2,2-Dichloropropane	ug/L	ND	20	20	15.6	16.6	78	83	70-130	6	30	
2-Butanone (MEK)	ug/L	ND	40	40	35.2	38.9	88	97	70-130	10	30	
2-Chlorotoluene	ug/L	ND	20	20	17.3	18.4	86	92	70-130	6	30	
2-Hexanone	ug/L	ND	40	40	34.0	38.7	85	97	70-130	13	30	
4-Chlorotoluene	ug/L	ND	20	20	17.0	18.1	85	90	70-130	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	35.4	39.2	89	98	70-130	10	30	
Acetone	ug/L	ND	40	40	33.3	34.6	83	86	70-130	4	30	
Benzene	ug/L	ND	20	20	18.7	19.9	94	100	70-148	6	30	
Bromobenzene	ug/L	ND	20	20	17.0	18.1	85	91	70-130	6	30	
Bromochloromethane	ug/L	ND	20	20	18.4	19.4	92	97	70-130	5	30	
Bromodichloromethane	ug/L	ND	20	20	17.3	18.5	87	93	70-130	7	30	
Bromoform	ug/L	ND	20	20	15.4	17.5	77	87	70-130	13	30	
Bromomethane	ug/L	ND	20	20	6.0	6.9	30	35	70-130	14	30	M1
Carbon tetrachloride	ug/L	ND	20	20	20.0	21.0	100	105	70-130	5	30	
Chlorobenzene	ug/L	ND	20	20	18.0	19.3	90	97	70-146	7	30	
Chloroethane	ug/L	ND	20	20	18.2	20.8	91	104	70-130	13	30	
Chloroform	ug/L	ND	20	20	17.7	18.4	89	92	70-130	4	30	
Chloromethane	ug/L	ND	20	20	13.7	14.4	68	72	70-130	5	30	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1695905 1695906

Parameter	Units	92291414003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.5	18.8	88	94	70-130	7	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.7	17.6	84	88	70-130	5	30	
Dibromochloromethane	ug/L	ND	20	20	17.1	18.5	86	93	70-130	8	30	
Dibromomethane	ug/L	ND	20	20	18.6	19.9	93	99	70-130	7	30	
Dichlorodifluoromethane	ug/L	ND	20	20	16.6	18.0	83	90	70-130	8	30	
Diisopropyl ether	ug/L	ND	20	20	17.5	18.8	87	94	70-130	7	30	
Ethylbenzene	ug/L	ND	20	20	17.8	19.3	89	96	70-130	8	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.3	19.2	86	96	70-130	11	30	
m&p-Xylene	ug/L	ND	40	40	35.2	37.7	88	94	70-130	7	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.7	19.0	89	95	70-130	7	30	
Methylene Chloride	ug/L	ND	20	20	17.5	18.5	88	93	70-130	5	30	
Naphthalene	ug/L	ND	20	20	17.7	19.1	88	96	70-130	8	30	
o-Xylene	ug/L	ND	20	20	17.1	18.7	86	93	70-130	9	30	
p-Isopropyltoluene	ug/L	ND	20	20	17.2	18.7	86	93	70-130	8	30	
Styrene	ug/L	ND	20	20	17.5	19.1	88	95	70-130	8	30	
Tetrachloroethene	ug/L	ND	20	20	17.6	19.7	88	99	70-130	12	30	
Toluene	ug/L	ND	20	20	18.2	19.8	91	99	70-155	8	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.7	19.6	93	98	70-130	5	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.2	17.3	81	87	70-130	7	30	
Trichloroethene	ug/L	ND	20	20	18.5	19.8	92	99	69-151	7	30	
Trichlorofluoromethane	ug/L	ND	20	20	19.4	20.7	97	104	70-130	7	30	
Vinyl acetate	ug/L	ND	40	40	30.5	32.8	76	82	70-130	7	30	
Vinyl chloride	ug/L	ND	20	20	18.9	19.7	94	99	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						96	97	70-130			
4-Bromofluorobenzene (S)	%						101	102	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

QC Batch: MSV/36146 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92291414002, 92291414009, 92291414010, 92291414011, 92291414013

METHOD BLANK: 1695950 Matrix: Water
Associated Lab Samples: 92291414002, 92291414009, 92291414010, 92291414011, 92291414013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/26/16 14:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/26/16 14:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/26/16 14:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/26/16 14:37	
1,1-Dichloroethane	ug/L	ND	1.0	03/26/16 14:37	
1,1-Dichloroethene	ug/L	ND	1.0	03/26/16 14:37	
1,1-Dichloropropene	ug/L	ND	1.0	03/26/16 14:37	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/26/16 14:37	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/26/16 14:37	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/26/16 14:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/26/16 14:37	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/26/16 14:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/26/16 14:37	
1,2-Dichloroethane	ug/L	ND	1.0	03/26/16 14:37	
1,2-Dichloropropane	ug/L	ND	1.0	03/26/16 14:37	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/26/16 14:37	
1,3-Dichloropropane	ug/L	ND	1.0	03/26/16 14:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/26/16 14:37	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	03/26/16 14:37	
2,2-Dichloropropane	ug/L	ND	1.0	03/26/16 14:37	
2-Butanone (MEK)	ug/L	ND	5.0	03/26/16 14:37	
2-Chlorotoluene	ug/L	ND	1.0	03/26/16 14:37	
2-Hexanone	ug/L	ND	5.0	03/26/16 14:37	
4-Chlorotoluene	ug/L	ND	1.0	03/26/16 14:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/26/16 14:37	
Acetone	ug/L	ND	25.0	03/26/16 14:37	
Benzene	ug/L	ND	1.0	03/26/16 14:37	
Bromobenzene	ug/L	ND	1.0	03/26/16 14:37	
Bromochloromethane	ug/L	ND	1.0	03/26/16 14:37	
Bromodichloromethane	ug/L	ND	1.0	03/26/16 14:37	
Bromoform	ug/L	ND	1.0	03/26/16 14:37	
Bromomethane	ug/L	ND	2.0	03/26/16 14:37	
Carbon tetrachloride	ug/L	ND	1.0	03/26/16 14:37	
Chlorobenzene	ug/L	ND	1.0	03/26/16 14:37	
Chloroethane	ug/L	ND	1.0	03/26/16 14:37	
Chloroform	ug/L	ND	1.0	03/26/16 14:37	
Chloromethane	ug/L	ND	1.0	03/26/16 14:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/26/16 14:37	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/26/16 14:37	
Dibromochloromethane	ug/L	ND	1.0	03/26/16 14:37	
Dibromomethane	ug/L	ND	1.0	03/26/16 14:37	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

METHOD BLANK: 1695950 Matrix: Water
Associated Lab Samples: 92291414002, 92291414009, 92291414010, 92291414011, 92291414013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/26/16 14:37	
Diisopropyl ether	ug/L	ND	1.0	03/26/16 14:37	
Ethylbenzene	ug/L	ND	1.0	03/26/16 14:37	
Hexachloro-1,3-butadiene	ug/L	1.9	1.0	03/26/16 14:37	
m&p-Xylene	ug/L	ND	2.0	03/26/16 14:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/26/16 14:37	
Methylene Chloride	ug/L	ND	2.0	03/26/16 14:37	
Naphthalene	ug/L	ND	1.0	03/26/16 14:37	
o-Xylene	ug/L	ND	1.0	03/26/16 14:37	
p-Isopropyltoluene	ug/L	ND	1.0	03/26/16 14:37	
Styrene	ug/L	ND	1.0	03/26/16 14:37	
Tetrachloroethene	ug/L	ND	1.0	03/26/16 14:37	
Toluene	ug/L	ND	1.0	03/26/16 14:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/26/16 14:37	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/26/16 14:37	
Trichloroethene	ug/L	ND	1.0	03/26/16 14:37	
Trichlorofluoromethane	ug/L	ND	1.0	03/26/16 14:37	
Vinyl acetate	ug/L	ND	2.0	03/26/16 14:37	
Vinyl chloride	ug/L	ND	1.0	03/26/16 14:37	
Xylene (Total)	ug/L	ND	2.0	03/26/16 14:37	
1,2-Dichloroethane-d4 (S)	%	99	70-130	03/26/16 14:37	
4-Bromofluorobenzene (S)	%	104	70-130	03/26/16 14:37	
Toluene-d8 (S)	%	101	70-130	03/26/16 14:37	

LABORATORY CONTROL SAMPLE: 1695951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.8	90	70-130	
1,1,1-Trichloroethane	ug/L	50	45.4	91	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.0	90	70-130	
1,1,2-Trichloroethane	ug/L	50	43.6	87	70-130	
1,1-Dichloroethane	ug/L	50	41.3	83	70-130	
1,1-Dichloroethene	ug/L	50	45.0	90	70-132	
1,1-Dichloropropene	ug/L	50	43.3	87	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.2	92	70-135	
1,2,3-Trichloropropane	ug/L	50	42.6	85	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.7	91	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	43.5	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	45.5	91	70-130	
1,2-Dichlorobenzene	ug/L	50	42.9	86	70-130	
1,2-Dichloroethane	ug/L	50	39.8	80	70-130	
1,2-Dichloropropane	ug/L	50	42.8	86	70-130	
1,3-Dichlorobenzene	ug/L	50	43.5	87	70-130	
1,3-Dichloropropane	ug/L	50	44.0	88	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

LABORATORY CONTROL SAMPLE: 1695951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	44.6	89	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	1840	184	71-125	L0
2,2-Dichloropropane	ug/L	50	40.3	81	58-145	
2-Butanone (MEK)	ug/L	100	87.0	87	70-145	
2-Chlorotoluene	ug/L	50	43.5	87	70-130	
2-Hexanone	ug/L	100	94.4	94	70-144	
4-Chlorotoluene	ug/L	50	43.7	87	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.9	96	70-140	
Acetone	ug/L	100	90.7	91	50-175	
Benzene	ug/L	50	43.5	87	70-130	
Bromobenzene	ug/L	50	43.5	87	70-130	
Bromochloromethane	ug/L	50	38.7	77	70-130	
Bromodichloromethane	ug/L	50	47.2	94	70-130	
Bromoform	ug/L	50	43.3	87	70-130	
Bromomethane	ug/L	50	31.7	63	54-130	
Carbon tetrachloride	ug/L	50	48.4	97	70-132	
Chlorobenzene	ug/L	50	44.4	89	70-130	
Chloroethane	ug/L	50	35.6	71	64-134	
Chloroform	ug/L	50	41.8	84	70-130	
Chloromethane	ug/L	50	29.9	60	64-130	L0
cis-1,2-Dichloroethene	ug/L	50	41.4	83	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Dibromochloromethane	ug/L	50	43.7	87	70-130	
Dibromomethane	ug/L	50	43.3	87	70-131	
Dichlorodifluoromethane	ug/L	50	39.1	78	56-130	
Diisopropyl ether	ug/L	50	40.9	82	70-130	
Ethylbenzene	ug/L	50	43.2	86	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.7	99	70-130	
m&p-Xylene	ug/L	100	87.0	87	70-130	
Methyl-tert-butyl ether	ug/L	50	44.3	89	70-130	
Methylene Chloride	ug/L	50	37.8	76	63-130	
Naphthalene	ug/L	50	46.8	94	70-138	
o-Xylene	ug/L	50	42.3	85	70-130	
p-Isopropyltoluene	ug/L	50	45.9	92	70-130	
Styrene	ug/L	50	42.5	85	70-130	
Tetrachloroethene	ug/L	50	42.6	85	70-130	
Toluene	ug/L	50	45.9	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	42.2	84	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.9	90	70-132	
Trichloroethene	ug/L	50	42.6	85	70-130	
Trichlorofluoromethane	ug/L	50	43.0	86	62-133	
Vinyl acetate	ug/L	100	82.2	82	66-157	
Vinyl chloride	ug/L	50	41.9	84	50-150	
Xylene (Total)	ug/L	150	129	86	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

QC Batch: MSV/36154
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92291414014

METHOD BLANK: 1696038
Matrix: Water
Associated Lab Samples: 92291414014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 03:19	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/28/16 03:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 03:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/28/16 03:19	
1,1-Dichloroethane	ug/L	ND	1.0	03/28/16 03:19	
1,1-Dichloroethene	ug/L	ND	1.0	03/28/16 03:19	
1,1-Dichloropropene	ug/L	ND	1.0	03/28/16 03:19	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/28/16 03:19	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/28/16 03:19	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/28/16 03:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/28/16 03:19	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/28/16 03:19	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/28/16 03:19	
1,2-Dichloroethane	ug/L	ND	1.0	03/28/16 03:19	
1,2-Dichloropropane	ug/L	ND	1.0	03/28/16 03:19	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/28/16 03:19	
1,3-Dichloropropane	ug/L	ND	1.0	03/28/16 03:19	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/28/16 03:19	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	03/28/16 03:19	
2,2-Dichloropropane	ug/L	ND	1.0	03/28/16 03:19	
2-Butanone (MEK)	ug/L	ND	5.0	03/28/16 03:19	
2-Chlorotoluene	ug/L	ND	1.0	03/28/16 03:19	
2-Hexanone	ug/L	ND	5.0	03/28/16 03:19	
4-Chlorotoluene	ug/L	ND	1.0	03/28/16 03:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/28/16 03:19	
Acetone	ug/L	ND	25.0	03/28/16 03:19	
Benzene	ug/L	ND	1.0	03/28/16 03:19	
Bromobenzene	ug/L	ND	1.0	03/28/16 03:19	
Bromochloromethane	ug/L	ND	1.0	03/28/16 03:19	
Bromodichloromethane	ug/L	ND	1.0	03/28/16 03:19	
Bromoform	ug/L	ND	1.0	03/28/16 03:19	
Bromomethane	ug/L	ND	2.0	03/28/16 03:19	
Carbon tetrachloride	ug/L	ND	1.0	03/28/16 03:19	
Chlorobenzene	ug/L	ND	1.0	03/28/16 03:19	
Chloroethane	ug/L	ND	1.0	03/28/16 03:19	
Chloroform	ug/L	ND	1.0	03/28/16 03:19	
Chloromethane	ug/L	ND	1.0	03/28/16 03:19	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 03:19	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 03:19	
Dibromochloromethane	ug/L	ND	1.0	03/28/16 03:19	
Dibromomethane	ug/L	ND	1.0	03/28/16 03:19	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

METHOD BLANK: 1696038 Matrix: Water
Associated Lab Samples: 92291414014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/28/16 03:19	
Diisopropyl ether	ug/L	ND	1.0	03/28/16 03:19	
Ethylbenzene	ug/L	ND	1.0	03/28/16 03:19	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/28/16 03:19	
m&p-Xylene	ug/L	ND	2.0	03/28/16 03:19	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/28/16 03:19	
Methylene Chloride	ug/L	ND	2.0	03/28/16 03:19	
Naphthalene	ug/L	ND	1.0	03/28/16 03:19	
o-Xylene	ug/L	ND	1.0	03/28/16 03:19	
p-Isopropyltoluene	ug/L	ND	1.0	03/28/16 03:19	
Styrene	ug/L	ND	1.0	03/28/16 03:19	
Tetrachloroethene	ug/L	ND	1.0	03/28/16 03:19	
Toluene	ug/L	ND	1.0	03/28/16 03:19	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 03:19	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 03:19	
Trichloroethene	ug/L	ND	1.0	03/28/16 03:19	
Trichlorofluoromethane	ug/L	ND	1.0	03/28/16 03:19	
Vinyl acetate	ug/L	ND	2.0	03/28/16 03:19	
Vinyl chloride	ug/L	ND	1.0	03/28/16 03:19	
Xylene (Total)	ug/L	ND	2.0	03/28/16 03:19	
1,2-Dichloroethane-d4 (S)	%	97	70-130	03/28/16 03:19	
4-Bromofluorobenzene (S)	%	98	70-130	03/28/16 03:19	
Toluene-d8 (S)	%	101	70-130	03/28/16 03:19	

LABORATORY CONTROL SAMPLE: 1696039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.4	97	70-130	
1,1,1-Trichloroethane	ug/L	50	46.0	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.3	99	70-130	
1,1,2-Trichloroethane	ug/L	50	48.4	97	70-130	
1,1-Dichloroethane	ug/L	50	45.7	91	70-130	
1,1-Dichloroethene	ug/L	50	47.1	94	70-132	
1,1-Dichloropropene	ug/L	50	47.5	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	49.0	98	70-135	
1,2,3-Trichloropropane	ug/L	50	50.3	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.3	97	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.5	105	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	70-130	
1,2-Dichlorobenzene	ug/L	50	46.0	92	70-130	
1,2-Dichloroethane	ug/L	50	43.8	88	70-130	
1,2-Dichloropropane	ug/L	50	47.6	95	70-130	
1,3-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,3-Dichloropropane	ug/L	50	47.6	95	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

LABORATORY CONTROL SAMPLE: 1696039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	46.8	94	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	567	57	71-125	L0
2,2-Dichloropropane	ug/L	50	42.1	84	58-145	
2-Butanone (MEK)	ug/L	100	105	105	70-145	
2-Chlorotoluene	ug/L	50	46.4	93	70-130	
2-Hexanone	ug/L	100	105	105	70-144	
4-Chlorotoluene	ug/L	50	44.8	90	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-140	
Acetone	ug/L	100	100	100	50-175	
Benzene	ug/L	50	47.8	96	70-130	
Bromobenzene	ug/L	50	45.5	91	70-130	
Bromochloromethane	ug/L	50	47.4	95	70-130	
Bromodichloromethane	ug/L	50	48.2	96	70-130	
Bromoform	ug/L	50	39.2	78	70-130	
Bromomethane	ug/L	50	41.8	84	54-130	
Carbon tetrachloride	ug/L	50	48.5	97	70-132	
Chlorobenzene	ug/L	50	46.3	93	70-130	
Chloroethane	ug/L	50	43.5	87	64-134	
Chloroform	ug/L	50	47.0	94	70-130	
Chloromethane	ug/L	50	40.4	81	64-130	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	70-131	
cis-1,3-Dichloropropene	ug/L	50	47.0	94	70-130	
Dibromochloromethane	ug/L	50	46.1	92	70-130	
Dibromomethane	ug/L	50	49.7	99	70-131	
Dichlorodifluoromethane	ug/L	50	42.8	86	56-130	
Diisopropyl ether	ug/L	50	47.7	95	70-130	
Ethylbenzene	ug/L	50	47.0	94	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	70-130	
m&p-Xylene	ug/L	100	91.9	92	70-130	
Methyl-tert-butyl ether	ug/L	50	48.8	98	70-130	
Methylene Chloride	ug/L	50	46.2	92	63-130	
Naphthalene	ug/L	50	51.2	102	70-138	
o-Xylene	ug/L	50	45.3	91	70-130	
p-Isopropyltoluene	ug/L	50	46.5	93	70-130	
Styrene	ug/L	50	47.4	95	70-130	
Tetrachloroethene	ug/L	50	45.5	91	70-130	
Toluene	ug/L	50	46.2	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.7	95	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	70-132	
Trichloroethene	ug/L	50	45.7	91	70-130	
Trichlorofluoromethane	ug/L	50	47.2	94	62-133	
Vinyl acetate	ug/L	100	90.9	91	66-157	
Vinyl chloride	ug/L	50	49.4	99	50-150	
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696040 1696041

Parameter	Units	92291421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.3	22.2	96	111	70-130	14	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.8	22.0	99	110	70-130	11	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.9	20.5	95	102	70-130	8	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.7	20.2	94	101	70-130	8	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.1	22.3	100	111	70-130	10	30	
1,1-Dichloroethene	ug/L	ND	20	20	21.0	24.6	105	123	70-166	16	30	
1,1-Dichloropropene	ug/L	ND	20	20	20.8	23.1	104	115	70-130	10	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.8	22.0	104	110	70-130	6	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.5	20.4	98	102	70-130	4	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.3	21.6	102	108	70-130	6	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	17.8	20.5	89	102	70-130	14	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.3	22.6	102	113	70-130	11	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.1	21.1	96	105	70-130	10	30	
1,2-Dichloroethane	ug/L	ND	20	20	18.2	20.3	90	101	70-130	11	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.0	22.9	100	114	70-130	13	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.5	21.9	97	110	70-130	12	30	
1,3-Dichloropropane	ug/L	ND	20	20	19.5	21.3	97	106	70-130	9	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.0	21.4	95	107	70-130	12	30	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	400	161	167	40	42	70-130	4	30	M0
2,2-Dichloropropane	ug/L	ND	20	20	16.2	18.3	81	91	70-130	12	30	
2-Butanone (MEK)	ug/L	ND	40	40	35.3	37.5	88	94	70-130	6	30	
2-Chlorotoluene	ug/L	ND	20	20	18.5	22.0	93	110	70-130	17	30	
2-Hexanone	ug/L	ND	40	40	34.7	36.7	87	92	70-130	6	30	
4-Chlorotoluene	ug/L	ND	20	20	19.1	21.5	95	107	70-130	12	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	39.3	42.2	98	105	70-130	7	30	
Acetone	ug/L	ND	40	40	44.5	41.4	93	85	70-130	7	30	
Benzene	ug/L	ND	20	20	20.1	21.9	101	110	70-148	8	30	
Bromobenzene	ug/L	ND	20	20	19.4	22.2	97	111	70-130	13	30	
Bromochloromethane	ug/L	ND	20	20	20.0	22.3	100	111	70-130	11	30	
Bromodichloromethane	ug/L	ND	20	20	19.8	21.2	99	106	70-130	7	30	
Bromoform	ug/L	ND	20	20	17.0	18.4	85	92	70-130	8	30	
Bromomethane	ug/L	ND	20	20	22.0	23.8	110	119	70-130	8	30	
Carbon tetrachloride	ug/L	ND	20	20	20.0	22.9	100	115	70-130	14	30	
Chlorobenzene	ug/L	ND	20	20	19.2	21.9	96	110	70-146	13	30	
Chloroethane	ug/L	ND	20	20	21.2	22.4	106	112	70-130	6	30	
Chloroform	ug/L	ND	20	20	19.8	21.8	99	109	70-130	10	30	
Chloromethane	ug/L	ND	20	20	18.9	20.2	95	101	70-130	6	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.7	22.5	103	113	70-130	9	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.1	21.1	95	106	70-130	10	30	
Dibromochloromethane	ug/L	ND	20	20	18.8	20.8	94	104	70-130	10	30	
Dibromomethane	ug/L	ND	20	20	19.2	21.6	96	108	70-130	12	30	
Dichlorodifluoromethane	ug/L	ND	20	20	20.2	22.4	101	112	70-130	10	30	
Diisopropyl ether	ug/L	ND	20	20	20.0	23.0	100	115	70-130	14	30	
Ethylbenzene	ug/L	ND	20	20	19.3	21.6	97	108	70-130	11	30	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1696040 1696041

Parameter	Units	92291421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.9	21.5	105	107	70-130	3	30	
m&p-Xylene	ug/L	ND	40	40	38.1	42.7	95	106	70-130	11	30	
Methyl-tert-butyl ether	ug/L	3.3	20	20	23.5	25.1	101	109	70-130	6	30	
Methylene Chloride	ug/L	ND	20	20	20.2	22.1	101	111	70-130	9	30	
Naphthalene	ug/L	ND	20	20	19.2	20.4	96	102	70-130	6	30	
o-Xylene	ug/L	ND	20	20	18.6	20.9	93	104	70-130	11	30	
p-Isopropyltoluene	ug/L	ND	20	20	20.3	22.3	101	111	70-130	9	30	
Styrene	ug/L	ND	20	20	19.0	21.1	95	105	70-130	10	30	
Tetrachloroethene	ug/L	ND	20	20	19.0	21.4	95	107	70-130	12	30	
Toluene	ug/L	ND	20	20	19.8	21.8	98	108	70-155	10	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.9	23.5	105	118	70-130	12	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.5	19.5	92	98	70-130	5	30	
Trichloroethene	ug/L	ND	20	20	19.5	21.3	98	106	69-151	9	30	
Trichlorofluoromethane	ug/L	ND	20	20	21.4	24.4	107	122	70-130	13	30	
Vinyl acetate	ug/L	ND	40	40	30.8	35.0	77	88	70-130	13	30	
Vinyl chloride	ug/L	ND	20	20	22.8	24.7	114	123	70-130	8	30	
1,2-Dichloroethane-d4 (S)	%						98	98	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

QC Batch: MSV/36167
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92291414004

METHOD BLANK: 1696327
Matrix: Water
Associated Lab Samples: 92291414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 13:32	
1,1,1-Trichloroethane	ug/L	ND	1.0	03/28/16 13:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/28/16 13:32	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/28/16 13:32	
1,1-Dichloroethane	ug/L	ND	1.0	03/28/16 13:32	
1,1-Dichloroethene	ug/L	ND	1.0	03/28/16 13:32	
1,1-Dichloropropene	ug/L	ND	1.0	03/28/16 13:32	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	03/28/16 13:32	
1,2,3-Trichloropropane	ug/L	ND	1.0	03/28/16 13:32	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	03/28/16 13:32	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	03/28/16 13:32	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	03/28/16 13:32	
1,2-Dichlorobenzene	ug/L	ND	1.0	03/28/16 13:32	
1,2-Dichloroethane	ug/L	ND	1.0	03/28/16 13:32	
1,2-Dichloropropane	ug/L	ND	1.0	03/28/16 13:32	
1,3-Dichlorobenzene	ug/L	ND	1.0	03/28/16 13:32	
1,3-Dichloropropane	ug/L	ND	1.0	03/28/16 13:32	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/28/16 13:32	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	03/28/16 13:32	
2,2-Dichloropropane	ug/L	ND	1.0	03/28/16 13:32	
2-Butanone (MEK)	ug/L	ND	5.0	03/28/16 13:32	
2-Chlorotoluene	ug/L	ND	1.0	03/28/16 13:32	
2-Hexanone	ug/L	ND	5.0	03/28/16 13:32	
4-Chlorotoluene	ug/L	ND	1.0	03/28/16 13:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	03/28/16 13:32	
Acetone	ug/L	ND	25.0	03/28/16 13:32	
Benzene	ug/L	ND	1.0	03/28/16 13:32	
Bromobenzene	ug/L	ND	1.0	03/28/16 13:32	
Bromochloromethane	ug/L	ND	1.0	03/28/16 13:32	
Bromodichloromethane	ug/L	ND	1.0	03/28/16 13:32	
Bromoform	ug/L	ND	1.0	03/28/16 13:32	
Bromomethane	ug/L	ND	2.0	03/28/16 13:32	
Carbon tetrachloride	ug/L	ND	1.0	03/28/16 13:32	
Chlorobenzene	ug/L	ND	1.0	03/28/16 13:32	
Chloroethane	ug/L	ND	1.0	03/28/16 13:32	
Chloroform	ug/L	ND	1.0	03/28/16 13:32	
Chloromethane	ug/L	ND	1.0	03/28/16 13:32	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 13:32	
cis-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 13:32	
Dibromochloromethane	ug/L	ND	1.0	03/28/16 13:32	
Dibromomethane	ug/L	ND	1.0	03/28/16 13:32	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

METHOD BLANK: 1696327 Matrix: Water
Associated Lab Samples: 92291414004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	03/28/16 13:32	
Diisopropyl ether	ug/L	ND	1.0	03/28/16 13:32	
Ethylbenzene	ug/L	ND	1.0	03/28/16 13:32	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	03/28/16 13:32	
m&p-Xylene	ug/L	ND	2.0	03/28/16 13:32	
Methyl-tert-butyl ether	ug/L	ND	1.0	03/28/16 13:32	
Methylene Chloride	ug/L	3.3	2.0	03/28/16 13:32	C9
Naphthalene	ug/L	ND	1.0	03/28/16 13:32	
o-Xylene	ug/L	ND	1.0	03/28/16 13:32	
p-Isopropyltoluene	ug/L	ND	1.0	03/28/16 13:32	
Styrene	ug/L	ND	1.0	03/28/16 13:32	
Tetrachloroethene	ug/L	ND	1.0	03/28/16 13:32	
Toluene	ug/L	ND	1.0	03/28/16 13:32	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/28/16 13:32	
trans-1,3-Dichloropropene	ug/L	ND	1.0	03/28/16 13:32	
Trichloroethene	ug/L	ND	1.0	03/28/16 13:32	
Trichlorofluoromethane	ug/L	ND	1.0	03/28/16 13:32	
Vinyl acetate	ug/L	ND	2.0	03/28/16 13:32	
Vinyl chloride	ug/L	ND	1.0	03/28/16 13:32	
Xylene (Total)	ug/L	ND	2.0	03/28/16 13:32	
1,2-Dichloroethane-d4 (S)	%	106	70-130	03/28/16 13:32	
4-Bromofluorobenzene (S)	%	97	70-130	03/28/16 13:32	
Toluene-d8 (S)	%	101	70-130	03/28/16 13:32	

LABORATORY CONTROL SAMPLE: 1696328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	70-130	
1,1,1-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,2-Trichloroethane	ug/L	50	46.8	94	70-130	
1,1-Dichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethene	ug/L	50	50.6	101	70-132	
1,1-Dichloropropene	ug/L	50	48.3	97	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.1	110	70-135	
1,2,3-Trichloropropane	ug/L	50	48.5	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.1	110	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.1	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.8	108	70-130	
1,2-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dichloroethane	ug/L	50	47.1	94	70-130	
1,2-Dichloropropane	ug/L	50	47.8	96	70-130	
1,3-Dichlorobenzene	ug/L	50	57.1	114	70-130	
1,3-Dichloropropane	ug/L	50	50.5	101	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

LABORATORY CONTROL SAMPLE: 1696328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	54.4	109	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	666	67	71-125	L0
2,2-Dichloropropane	ug/L	50	49.8	100	58-145	
2-Butanone (MEK)	ug/L	100	95.5	96	70-145	
2-Chlorotoluene	ug/L	50	49.6	99	70-130	
2-Hexanone	ug/L	100	102	102	70-144	
4-Chlorotoluene	ug/L	50	54.7	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-140	
Acetone	ug/L	100	99.1	99	50-175	
Benzene	ug/L	50	51.3	103	70-130	
Bromobenzene	ug/L	50	50.7	101	70-130	
Bromochloromethane	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	46.7	93	70-130	
Bromomethane	ug/L	50	31.9	64	54-130	
Carbon tetrachloride	ug/L	50	49.5	99	70-132	
Chlorobenzene	ug/L	50	47.5	95	70-130	
Chloroethane	ug/L	50	49.5	99	64-134	
Chloroform	ug/L	50	50.5	101	70-130	
Chloromethane	ug/L	50	45.3	91	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.4	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	70-130	
Dibromochloromethane	ug/L	50	51.5	103	70-130	
Dibromomethane	ug/L	50	48.8	98	70-131	
Dichlorodifluoromethane	ug/L	50	55.3	111	56-130	
Diisopropyl ether	ug/L	50	52.5	105	70-130	
Ethylbenzene	ug/L	50	50.4	101	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.3	107	70-130	
m&p-Xylene	ug/L	100	96.2	96	70-130	
Methyl-tert-butyl ether	ug/L	50	53.5	107	70-130	
Methylene Chloride	ug/L	50	48.8	98	63-130	
Naphthalene	ug/L	50	53.2	106	70-138	
o-Xylene	ug/L	50	48.0	96	70-130	
p-Isopropyltoluene	ug/L	50	55.4	111	70-130	
Styrene	ug/L	50	47.9	96	70-130	
Tetrachloroethene	ug/L	50	51.1	102	70-130	
Toluene	ug/L	50	49.6	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	70-132	
Trichloroethene	ug/L	50	46.6	93	70-130	
Trichlorofluoromethane	ug/L	50	51.0	102	62-133	
Vinyl acetate	ug/L	100	97.2	97	66-157	
Vinyl chloride	ug/L	50	49.4	99	50-150	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			93	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

QC Batch: MSV/36220
Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92291414003

METHOD BLANK: 1700669
Matrix: Water
Associated Lab Samples: 92291414003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/02/16 13:28	
1,2-Dichloroethane-d4 (S)	%	100	50-150	04/02/16 13:28	
Toluene-d8 (S)	%	101	50-150	04/02/16 13:28	

LABORATORY CONTROL SAMPLE: 1700670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.5	98	71-125	
1,2-Dichloroethane-d4 (S)	%			99	50-150	
Toluene-d8 (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700671 1700672

Parameter	Units	92291414003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	18.8	20.5	94	102	50-150	9	30	
1,2-Dichloroethane-d4 (S)	%						100	96	50-150		150	
Toluene-d8 (S)	%						101	101	50-150		150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

QC Batch: MSV/36221 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92291414001, 92291414002, 92291414004, 92291414005

METHOD BLANK: 1700673 Matrix: Water
Associated Lab Samples: 92291414001, 92291414002, 92291414004, 92291414005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/02/16 13:10	
1,2-Dichloroethane-d4 (S)	%	99	50-150	04/02/16 13:10	
Toluene-d8 (S)	%	101	50-150	04/02/16 13:10	

LABORATORY CONTROL SAMPLE: 1700674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.0	95	71-125	
1,2-Dichloroethane-d4 (S)	%			97	50-150	
Toluene-d8 (S)	%			100	50-150	

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.

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QUALITY CONTROL DATA

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

QC Batch: MSV/36222 — Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. — Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92291414006, 92291414007, 92291414008, 92291414009, 92291414010, 92291414011, 92291414012, 92291414013, 92291414014, 92291414015

METHOD BLANK: 1700675 — Matrix: Water
Associated Lab Samples: 92291414006, 92291414007, 92291414008, 92291414009, 92291414010, 92291414011, 92291414012, 92291414013, 92291414014, 92291414015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/02/16 23:40	
1,2-Dichloroethane-d4 (S)	%	98	50-150	04/02/16 23:40	
Toluene-d8 (S)	%	104	50-150	04/02/16 23:40	

LABORATORY CONTROL SAMPLE: 1700676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.3	101	71-125	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			105	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1700677 1700678

Parameter	Units	92291414010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.1	20.1	101	101	50-150	0	30	
1,2-Dichloroethane-d4 (S)	%						101	100	50-150		150	
Toluene-d8 (S)	%						105	106	50-150		150	

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QUALIFIERS

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

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, Styrene, and Vinyl chloride.

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

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3705/28 KOP FLEX HANOVER, MD
Pace Project No.: 92291414

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92291414001	**MW-33-235**	EPA 8260	MSV/36144		
92291414002	**MW-33-295**	EPA 8260	MSV/36146		
92291414003	**MW-31-280**	EPA 8260	MSV/36144		
92291414004	**MW-24D**	EPA 8260	MSV/36167		
92291414005	**MW-28-45**	EPA 8260	MSV/36144		
92291414006	**EB-032116**	EPA 8260	MSV/36144		
92291414007	**EB-032216**	EPA 8260	MSV/36144		
92291414008	**EB-032316**	EPA 8260	MSV/36144		
92291414009	**MW-28-210**	EPA 8260	MSV/36146		
92291414010	**MW-25-40**	EPA 8260	MSV/36146		
92291414011	**MW-25-190**	EPA 8260	MSV/36146		
92291414012	**MW-100**	EPA 8260	MSV/36144		
92291414013	**MW-25-130**	EPA 8260	MSV/36146		
92291414014	**WC-WATER-032316**	EPA 8260	MSV/36154		
92291414015	**TRIP BLANK**	EPA 8260	MSV/36144		
92291414001	**MW-33-235**	EPA 8260B Mod.	MSV/36221		
92291414002	**MW-33-295**	EPA 8260B Mod.	MSV/36221		
92291414003	**MW-31-280**	EPA 8260B Mod.	MSV/36220		
92291414004	**MW-24D**	EPA 8260B Mod.	MSV/36221		
92291414005	**MW-28-45**	EPA 8260B Mod.	MSV/36221		
92291414006	**EB-032116**	EPA 8260B Mod.	MSV/36222		
92291414007	**EB-032216**	EPA 8260B Mod.	MSV/36222		
92291414008	**EB-032316**	EPA 8260B Mod.	MSV/36222		
92291414009	**MW-28-210**	EPA 8260B Mod.	MSV/36222		
92291414010	**MW-25-40**	EPA 8260B Mod.	MSV/36222		
92291414011	**MW-25-190**	EPA 8260B Mod.	MSV/36222		
92291414012	**MW-100**	EPA 8260B Mod.	MSV/36222		
92291414013	**MW-25-130**	EPA 8260B Mod.	MSV/36222		
92291414014	**WC-WATER-032316**	EPA 8260B Mod.	MSV/36222		
92291414015	**TRIP BLANK**	EPA 8260B Mod.	MSV/36222		

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Sample Condition Upon Receipt

Client Name: WSP

Project WO#: 92291414

92291414

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

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

Date/Initials Person Examining Contents: AP 3-25-16

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

Thermometer: ☐ T1505 ☐ _____ **Type of Ice:** ☐ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Correction Factor: 0.0°C **Cooler Temp Corrected (°C):** 2.5 **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:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☐ Yes	☑ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: WT				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☑ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☐ Yes	☐ No	☑ N/A	
Samples checked for dechlorination	☐ Yes	☐ No	☑ N/A	14.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present?	☑ Yes	☑ No	☐ N/A	16.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased):_____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: JY **Date:** 3/25/16

Project Manager SRF Review: JY **Date:** 3/25/16

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

CHAIN-OF-CUSTODY RECORD

No. 003691 WSP | PARSONS BRINCKERHOFF

WSP | Parsons Brinckerhoff Office Address: 13530 Dulles Technology Drive Suite 300 Herndon, VA 20171

Project Name: Kop Flex

WSP | Parsons Brinckerhoff Contact Name: Eric Johnson

Project Location: Hanover, MD

WSP | Parsons Brinckerhoff Contact E-mail: Eric.johnson @wspgroup.com

Project Number & Task: 39196 / 02

WSP | Parsons Brinckerhoff Contact Phone: 703 709 6500

Sampler(s) Name(s): Molly Long, Chris Cresci

Sampler(s) Signature(s): Molly Long

Laboratory Name & Location: PACE, NC

Laboratory Project Manager: Kevin Godwin

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

Requested Analyses & Preservatives

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	VOC	1,4-Dioxane	Sample Comments
MW-33-235	AQ	3/21/16			1130	6	X	X	92291414 001
MW-33-295	AQ	3/21/16			1340	6	X	X	002
MW-31-280	AQ	3/21/16			1650	6	X	X	003
MW-31-280 MS	AQ	3/21/16			1650	6	X	X	MS/MSD ↓
MW-31-280 MSD	AQ	3/21/16			1650	6	X	X	
MW-24D	AQ	3/22/16			1450	6	X	X	004
MW-28-45	AQ	3/22/16			1712	6	X	X	005
EB-032116	AQ	3/21/16			1555	6	X	X	006
EB-032216	AQ	3/22/16			1530	6	X	X	007
EB-032316	AQ	3/23/16			0845	6	X	X	008
MW-28-210	AQ	3/23/16			1050	6	X	X	009
MW-25-40	AQ	3/23/16			1318	6	X	X	010
MW-25-190	AQ	3/23/16			1445	6	X	X	011
MW-100	AQ	3/23/16			1800	6	X	X	012
MW-25-130	AQ	3/23/16			1710	6	X	X	013

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
Molly Long	3/24/16	1500				Fedex	809726874152
Relinquished By (Signature)	**Date**	**Time**	**Received By (Signature)**	**Date**	**Time**	**Number of Packages**	**Custody Seal Number(s)**
			[signature]	3-25-16	9:55	1	

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

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

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

No. 003692 WSP | PARSONS BRINCKERHOFF

WSP | Parsons Brinckerhoff Office Address	13530 Dulles Technology Drive
Project Name	Kopflex
WSP | Parsons Brinckerhoff Contact Name	Eric Johnson
Project Location	Hanover, MD
WSP | Parsons Brinckerhoff Contact E-mail	eric.johnson @wspgroup.com
Project Number & Task	39196/02
WSP | Parsons Brinckerhoff Contact Phone	703 709 6500
Sampler(s) Name(s)	Molly Log
Sampler(s) Signature(s)	Molly Log
Laboratory Name & Location	PACE NC
Laboratory Project Manager	Kevin Godwin
Requested Turn-Around-Time	☒ Standard ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ ____ HR

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	VOC	1,4-Dioxane								Sample Comments
WC-WATER-032316	AQ	3/23/16		1745		6	X	X								92291414 014
Trip Blank	AQ					4	X	X								015

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
Molly Log	3/24/16	1700				FedEx	8097268741 82
Relinquished By (Signature)	**Date**	**Time**	**Received By (Signature)**	**Date**	**Time**	**Number of Packages**	**Custody Seal Number(s)**
			[illegible]	3-25-16	9:55	1	

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

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

Pace Analytical Services, Inc.
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(704)875-9092

April 22, 2016

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

RE: Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Dear Eric Johnson:
Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Keith Green, WSP Environmental Strategies

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:	39196-07 Kop Flex Hanover, MD
Pace Project No.:	92294146

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

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SAMPLE SUMMARY

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92294146001	**Trip Blank**	Water	04/15/16 13:00	04/16/16 09:30
92294146002	**MW-35-298**	Water	04/15/16 13:45	04/16/16 09:30

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SAMPLE ANALYTE COUNT

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92294146001	**Trip Blank**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92294146002	**MW-35-298**	EPA 8260	NB	64	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C

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ANALYTICAL RESULTS

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Sample: Trip Blank **Lab ID: 92294146001** Collected: 04/15/16 13:00 Received: 04/16/16 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		04/20/16 19:02	67-64-1	
Benzene	ND	ug/L	1.0	1		04/20/16 19:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/20/16 19:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/20/16 19:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/20/16 19:02	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/20/16 19:02	75-25-2	
Bromomethane	ND	ug/L	2.0	1		04/20/16 19:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		04/20/16 19:02	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		04/20/16 19:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/20/16 19:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/20/16 19:02	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/20/16 19:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		04/20/16 19:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/20/16 19:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/20/16 19:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		04/20/16 19:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/20/16 19:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/20/16 19:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		04/20/16 19:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/20/16 19:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/20/16 19:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/20/16 19:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/20/16 19:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/20/16 19:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/20/16 19:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/20/16 19:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/20/16 19:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/20/16 19:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/20/16 19:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/20/16 19:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		04/20/16 19:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/20/16 19:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/20/16 19:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/20/16 19:02	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		04/20/16 19:02	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		04/20/16 19:02	123-91-1	
Ethylbenzene	ND	ug/L	1.0	1		04/20/16 19:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/20/16 19:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		04/20/16 19:02	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/20/16 19:02	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		04/20/16 19:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/20/16 19:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/20/16 19:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		04/20/16 19:02	91-20-3	
Styrene	ND	ug/L	1.0	1		04/20/16 19:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/20/16 19:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/20/16 19:02	79-34-5	

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ANALYTICAL RESULTS

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Sample: Trip Blank **Lab ID: 92294146001** Collected: 04/15/16 13:00 Received: 04/16/16 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		04/20/16 19:02	127-18-4	
Toluene	ND	ug/L	1.0	1		04/20/16 19:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/20/16 19:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/20/16 19:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/20/16 19:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/20/16 19:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/20/16 19:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/20/16 19:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/20/16 19:02	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		04/20/16 19:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		04/20/16 19:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		04/20/16 19:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		04/20/16 19:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/20/16 19:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		04/20/16 19:02	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		04/20/16 19:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		04/20/16 19:02	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/19/16 23:03	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	50-150	1		04/19/16 23:03	17060-07-0	
Toluene-d8 (S)	108	%	50-150	1		04/19/16 23:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Sample: MW-35-298 **Lab ID: 92294146002** Collected: 04/15/16 13:45 Received: 04/16/16 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		04/21/16 05:35	67-64-1	
Benzene	ND	ug/L	1.0	1		04/21/16 05:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		04/21/16 05:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		04/21/16 05:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		04/21/16 05:35	75-27-4	
Bromoform	ND	ug/L	1.0	1		04/21/16 05:35	75-25-2	
Bromomethane	ND	ug/L	2.0	1		04/21/16 05:35	74-83-9	
2-Butanone (MEK)	**7.3**	ug/L	5.0	1		04/21/16 05:35	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		04/21/16 05:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		04/21/16 05:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		04/21/16 05:35	75-00-3	
Chloroform	ND	ug/L	1.0	1		04/21/16 05:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		04/21/16 05:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		04/21/16 05:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		04/21/16 05:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		04/21/16 05:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		04/21/16 05:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		04/21/16 05:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		04/21/16 05:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		04/21/16 05:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		04/21/16 05:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		04/21/16 05:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		04/21/16 05:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		04/21/16 05:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		04/21/16 05:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		04/21/16 05:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		04/21/16 05:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		04/21/16 05:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		04/21/16 05:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		04/21/16 05:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		04/21/16 05:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		04/21/16 05:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		04/21/16 05:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		04/21/16 05:35	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		04/21/16 05:35	108-20-3	
1,4-Dioxane (p-Dioxane)	ND	ug/L	150	1		04/21/16 05:35	123-91-1	L2
Ethylbenzene	ND	ug/L	1.0	1		04/21/16 05:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		04/21/16 05:35	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		04/21/16 05:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		04/21/16 05:35	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		04/21/16 05:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		04/21/16 05:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		04/21/16 05:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		04/21/16 05:35	91-20-3	
Styrene	ND	ug/L	1.0	1		04/21/16 05:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		04/21/16 05:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		04/21/16 05:35	79-34-5	

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ANALYTICAL RESULTS

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Sample: MW-35-298 **Lab ID: 92294146002** Collected: 04/15/16 13:45 Received: 04/16/16 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	1		04/21/16 05:35	127-18-4	
Toluene	ND	ug/L	1.0	1		04/21/16 05:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		04/21/16 05:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		04/21/16 05:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		04/21/16 05:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		04/21/16 05:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		04/21/16 05:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		04/21/16 05:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		04/21/16 05:35	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		04/21/16 05:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		04/21/16 05:35	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		04/21/16 05:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		04/21/16 05:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		04/21/16 05:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		04/21/16 05:35	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		04/21/16 05:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		04/21/16 05:35	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		04/19/16 23:21	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	50-150	1		04/19/16 23:21	17060-07-0	
Toluene-d8 (S)	108	%	50-150	1		04/19/16 23:21	2037-26-5	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

QC Batch: MSV/36488
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92294146001

METHOD BLANK: 1715621
Matrix: Water
Associated Lab Samples: 92294146001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/20/16 13:21	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/20/16 13:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/20/16 13:21	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/20/16 13:21	
1,1-Dichloroethane	ug/L	ND	1.0	04/20/16 13:21	
1,1-Dichloroethene	ug/L	ND	1.0	04/20/16 13:21	
1,1-Dichloropropene	ug/L	ND	1.0	04/20/16 13:21	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/20/16 13:21	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/20/16 13:21	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/20/16 13:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	04/20/16 13:21	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/20/16 13:21	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/20/16 13:21	
1,2-Dichloroethane	ug/L	ND	1.0	04/20/16 13:21	
1,2-Dichloropropane	ug/L	ND	1.0	04/20/16 13:21	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/20/16 13:21	
1,3-Dichloropropane	ug/L	ND	1.0	04/20/16 13:21	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/20/16 13:21	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	04/20/16 13:21	
2,2-Dichloropropane	ug/L	ND	1.0	04/20/16 13:21	
2-Butanone (MEK)	ug/L	ND	5.0	04/20/16 13:21	
2-Chlorotoluene	ug/L	ND	1.0	04/20/16 13:21	
2-Hexanone	ug/L	ND	5.0	04/20/16 13:21	
4-Chlorotoluene	ug/L	ND	1.0	04/20/16 13:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/20/16 13:21	
Acetone	ug/L	ND	25.0	04/20/16 13:21	
Benzene	ug/L	ND	1.0	04/20/16 13:21	
Bromobenzene	ug/L	ND	1.0	04/20/16 13:21	
Bromochloromethane	ug/L	ND	1.0	04/20/16 13:21	
Bromodichloromethane	ug/L	ND	1.0	04/20/16 13:21	
Bromoform	ug/L	ND	1.0	04/20/16 13:21	
Bromomethane	ug/L	ND	2.0	04/20/16 13:21	
Carbon tetrachloride	ug/L	ND	1.0	04/20/16 13:21	
Chlorobenzene	ug/L	ND	1.0	04/20/16 13:21	
Chloroethane	ug/L	ND	1.0	04/20/16 13:21	
Chloroform	ug/L	ND	1.0	04/20/16 13:21	
Chloromethane	ug/L	ND	1.0	04/20/16 13:21	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/20/16 13:21	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/20/16 13:21	
Dibromochloromethane	ug/L	ND	1.0	04/20/16 13:21	
Dibromomethane	ug/L	ND	1.0	04/20/16 13:21	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

METHOD BLANK: 1715621 Matrix: Water
Associated Lab Samples: 92294146001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	04/20/16 13:21	
Diisopropyl ether	ug/L	ND	1.0	04/20/16 13:21	
Ethylbenzene	ug/L	ND	1.0	04/20/16 13:21	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	04/20/16 13:21	
m&p-Xylene	ug/L	ND	2.0	04/20/16 13:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/20/16 13:21	
Methylene Chloride	ug/L	ND	2.0	04/20/16 13:21	
Naphthalene	ug/L	ND	1.0	04/20/16 13:21	
o-Xylene	ug/L	ND	1.0	04/20/16 13:21	
p-Isopropyltoluene	ug/L	ND	1.0	04/20/16 13:21	
Styrene	ug/L	ND	1.0	04/20/16 13:21	
Tetrachloroethene	ug/L	ND	1.0	04/20/16 13:21	
Toluene	ug/L	ND	1.0	04/20/16 13:21	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/20/16 13:21	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/20/16 13:21	
Trichloroethene	ug/L	ND	1.0	04/20/16 13:21	
Trichlorofluoromethane	ug/L	ND	1.0	04/20/16 13:21	
Vinyl acetate	ug/L	ND	2.0	04/20/16 13:21	
Vinyl chloride	ug/L	ND	1.0	04/20/16 13:21	
Xylene (Total)	ug/L	ND	2.0	04/20/16 13:21	
1,2-Dichloroethane-d4 (S)	%	104	70-130	04/20/16 13:21	
4-Bromofluorobenzene (S)	%	100	70-130	04/20/16 13:21	
Toluene-d8 (S)	%	101	70-130	04/20/16 13:21	

LABORATORY CONTROL SAMPLE: 1715622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,1-Trichloroethane	ug/L	50	51.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	70-130	
1,1,2-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethane	ug/L	50	50.3	101	70-130	
1,1-Dichloroethene	ug/L	50	51.0	102	70-132	
1,1-Dichloropropene	ug/L	50	52.5	105	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	70-135	
1,2,3-Trichloropropane	ug/L	50	50.2	100	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.8	104	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.3	93	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
1,2-Dichloropropane	ug/L	50	49.6	99	70-130	
1,3-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,3-Dichloropropane	ug/L	50	51.0	102	70-130	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

LABORATORY CONTROL SAMPLE: 1715622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	710	71	71-125	
2,2-Dichloropropane	ug/L	50	54.1	108	58-145	
2-Butanone (MEK)	ug/L	100	96.4	96	70-145	
2-Chlorotoluene	ug/L	50	54.0	108	70-130	
2-Hexanone	ug/L	100	104	104	70-144	
4-Chlorotoluene	ug/L	50	51.4	103	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	50.6	101	70-130	
Bromobenzene	ug/L	50	49.8	100	70-130	
Bromochloromethane	ug/L	50	53.0	106	70-130	
Bromodichloromethane	ug/L	50	51.1	102	70-130	
Bromoform	ug/L	50	49.3	99	70-130	
Bromomethane	ug/L	50	32.9	66	54-130	
Carbon tetrachloride	ug/L	50	55.3	111	70-132	
Chlorobenzene	ug/L	50	51.3	103	70-130	
Chloroethane	ug/L	50	58.2	116	64-134	
Chloroform	ug/L	50	50.7	101	70-130	
Chloromethane	ug/L	50	34.4	69	64-130	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.2	100	70-130	
Dibromochloromethane	ug/L	50	50.6	101	70-130	
Dibromomethane	ug/L	50	51.5	103	70-131	
Dichlorodifluoromethane	ug/L	50	43.1	86	56-130	
Diisopropyl ether	ug/L	50	50.7	101	70-130	
Ethylbenzene	ug/L	50	51.5	103	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.0	106	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	50.7	101	70-130	
Methylene Chloride	ug/L	50	47.3	95	63-130	
Naphthalene	ug/L	50	48.8	98	70-138	
o-Xylene	ug/L	50	51.0	102	70-130	
p-Isopropyltoluene	ug/L	50	51.8	104	70-130	
Styrene	ug/L	50	51.5	103	70-130	
Tetrachloroethene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	52.3	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.3	103	70-132	
Trichloroethene	ug/L	50	50.0	100	70-130	
Trichlorofluoromethane	ug/L	50	52.3	105	62-133	
Vinyl acetate	ug/L	100	108	108	66-157	
Vinyl chloride	ug/L	50	49.7	99	50-150	
Xylene (Total)	ug/L	150	154	102	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

MATRIX SPIKE SAMPLE: 1715623

Parameter	Units	92294182001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	22.5	113	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.9	120	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.2	106	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.9	109	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.2	111	70-130	
1,1-Dichloroethene	ug/L	ND	20	24.5	122	70-166	
1,1-Dichloropropene	ug/L	ND	20	24.2	121	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.2	106	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	22.3	112	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	20.8	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.5	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.7	114	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	ND	20	22.2	111	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.6	108	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.1	111	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	261	65	70-130	M1
2,2-Dichloropropane	ug/L	ND	20	23.1	115	70-130	
2-Butanone (MEK)	ug/L	ND	40	43.9	110	70-130	
2-Chlorotoluene	ug/L	ND	20	23.5	118	70-130	
2-Hexanone	ug/L	ND	40	44.8	112	70-130	
4-Chlorotoluene	ug/L	ND	20	23.0	115	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	46.8	117	70-130	
Acetone	ug/L	ND	40	45.6	114	70-130	
Benzene	ug/L	ND	20	22.9	115	70-148	
Bromobenzene	ug/L	ND	20	23.0	115	70-130	
Bromochloromethane	ug/L	ND	20	23.1	116	70-130	
Bromodichloromethane	ug/L	ND	20	21.6	108	70-130	
Bromoform	ug/L	ND	20	19.9	100	70-130	
Bromomethane	ug/L	ND	20	13.4	67	70-130	M1
Carbon tetrachloride	ug/L	ND	20	24.5	123	70-130	
Chlorobenzene	ug/L	ND	20	22.8	114	70-146	
Chloroethane	ug/L	ND	20	28.8	144	70-130	M1
Chloroform	ug/L	ND	20	23.6	118	70-130	
Chloromethane	ug/L	ND	20	16.8	84	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.0	115	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.0	105	70-130	
Dibromochloromethane	ug/L	ND	20	22.0	110	70-130	
Dibromomethane	ug/L	ND	20	21.7	109	70-130	
Dichlorodifluoromethane	ug/L	ND	20	22.0	110	70-130	
Diisopropyl ether	ug/L	ND	20	22.7	114	70-130	
Ethylbenzene	ug/L	ND	20	23.2	116	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.9	109	70-130	
m&p-Xylene	ug/L	ND	40	46.0	115	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	23.1	116	70-130	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

MATRIX SPIKE SAMPLE: 1715623

Parameter	Units	92294182001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	22.1	110	70-130	
Naphthalene	ug/L	ND	20	19.9	100	70-130	
o-Xylene	ug/L	ND	20	22.1	111	70-130	
p-Isopropyltoluene	ug/L	ND	20	23.2	116	70-130	
Styrene	ug/L	ND	20	21.9	110	70-130	
Tetrachloroethene	ug/L	57.1	20	85.8	144	70-130	M1
Toluene	ug/L	ND	20	23.5	117	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.6	118	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.4	107	70-130	
Trichloroethene	ug/L	ND	20	23.1	116	69-151	
Trichlorofluoromethane	ug/L	ND	20	26.4	132	70-130	M1
Vinyl acetate	ug/L	ND	40	42.9	107	70-130	
Vinyl chloride	ug/L	ND	20	24.9	124	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1715624

Parameter	Units	92294182002 Result	Dup Result	RPD	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-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
1,4-Dioxane (p-Dioxane)	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	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

SAMPLE DUPLICATE: 1715624

Parameter	Units	92294182002 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	33.2	34.5	4	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)	%	101	102	0		
4-Bromofluorobenzene (S)	%	98	97	1		
Toluene-d8 (S)	%	100	99	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

QC Batch: MSV/36494
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92294146002

METHOD BLANK: 1715690
Matrix: Water
Associated Lab Samples: 92294146002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	04/21/16 00:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	04/21/16 00:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/21/16 00:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/21/16 00:27	
1,1-Dichloroethane	ug/L	ND	1.0	04/21/16 00:27	
1,1-Dichloroethene	ug/L	ND	1.0	04/21/16 00:27	
1,1-Dichloropropene	ug/L	ND	1.0	04/21/16 00:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	04/21/16 00:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	04/21/16 00:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	04/21/16 00:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	04/21/16 00:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	04/21/16 00:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	04/21/16 00:27	
1,2-Dichloroethane	ug/L	ND	1.0	04/21/16 00:27	
1,2-Dichloropropane	ug/L	ND	1.0	04/21/16 00:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	04/21/16 00:27	
1,3-Dichloropropane	ug/L	ND	1.0	04/21/16 00:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/21/16 00:27	
1,4-Dioxane (p-Dioxane)	ug/L	ND	150	04/21/16 00:27	
2,2-Dichloropropane	ug/L	ND	1.0	04/21/16 00:27	
2-Butanone (MEK)	ug/L	ND	5.0	04/21/16 00:27	
2-Chlorotoluene	ug/L	ND	1.0	04/21/16 00:27	
2-Hexanone	ug/L	ND	5.0	04/21/16 00:27	
4-Chlorotoluene	ug/L	ND	1.0	04/21/16 00:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	04/21/16 00:27	
Acetone	ug/L	ND	25.0	04/21/16 00:27	
Benzene	ug/L	ND	1.0	04/21/16 00:27	
Bromobenzene	ug/L	ND	1.0	04/21/16 00:27	
Bromochloromethane	ug/L	ND	1.0	04/21/16 00:27	
Bromodichloromethane	ug/L	ND	1.0	04/21/16 00:27	
Bromoform	ug/L	ND	1.0	04/21/16 00:27	
Bromomethane	ug/L	ND	2.0	04/21/16 00:27	
Carbon tetrachloride	ug/L	ND	1.0	04/21/16 00:27	
Chlorobenzene	ug/L	ND	1.0	04/21/16 00:27	
Chloroethane	ug/L	ND	1.0	04/21/16 00:27	
Chloroform	ug/L	ND	1.0	04/21/16 00:27	
Chloromethane	ug/L	ND	1.0	04/21/16 00:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/21/16 00:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	04/21/16 00:27	
Dibromochloromethane	ug/L	ND	1.0	04/21/16 00:27	
Dibromomethane	ug/L	ND	1.0	04/21/16 00:27	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

METHOD BLANK: 1715690 Matrix: Water
Associated Lab Samples: 92294146002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	04/21/16 00:27	
Diisopropyl ether	ug/L	ND	1.0	04/21/16 00:27	
Ethylbenzene	ug/L	ND	1.0	04/21/16 00:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	04/21/16 00:27	
m&p-Xylene	ug/L	ND	2.0	04/21/16 00:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	04/21/16 00:27	
Methylene Chloride	ug/L	ND	2.0	04/21/16 00:27	
Naphthalene	ug/L	ND	1.0	04/21/16 00:27	
o-Xylene	ug/L	ND	1.0	04/21/16 00:27	
p-Isopropyltoluene	ug/L	ND	1.0	04/21/16 00:27	
Styrene	ug/L	ND	1.0	04/21/16 00:27	
Tetrachloroethene	ug/L	ND	1.0	04/21/16 00:27	
Toluene	ug/L	ND	1.0	04/21/16 00:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/21/16 00:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	04/21/16 00:27	
Trichloroethene	ug/L	ND	1.0	04/21/16 00:27	
Trichlorofluoromethane	ug/L	ND	1.0	04/21/16 00:27	
Vinyl acetate	ug/L	ND	2.0	04/21/16 00:27	
Vinyl chloride	ug/L	ND	1.0	04/21/16 00:27	
Xylene (Total)	ug/L	ND	2.0	04/21/16 00:27	
1,2-Dichloroethane-d4 (S)	%	104	70-130	04/21/16 00:27	
4-Bromofluorobenzene (S)	%	101	70-130	04/21/16 00:27	
Toluene-d8 (S)	%	98	70-130	04/21/16 00:27	

LABORATORY CONTROL SAMPLE: 1715691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	70-130	
1,1,1-Trichloroethane	ug/L	50	56.4	113	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	70-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	70-130	
1,1-Dichloroethene	ug/L	50	56.9	114	70-132	
1,1-Dichloropropene	ug/L	50	55.5	111	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	70-135	
1,2,3-Trichloropropane	ug/L	50	53.3	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.6	93	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.7	111	70-130	
1,2-Dichlorobenzene	ug/L	50	52.7	105	70-130	
1,2-Dichloroethane	ug/L	50	52.9	106	70-130	
1,2-Dichloropropane	ug/L	50	52.3	105	70-130	
1,3-Dichlorobenzene	ug/L	50	54.0	108	70-130	
1,3-Dichloropropane	ug/L	50	53.1	106	70-130	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

LABORATORY CONTROL SAMPLE: 1715691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	53.6	107	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	1000	674	67	71-125	L0
2,2-Dichloropropane	ug/L	50	54.5	109	58-145	
2-Butanone (MEK)	ug/L	100	96.6	97	70-145	
2-Chlorotoluene	ug/L	50	56.8	114	70-130	
2-Hexanone	ug/L	100	102	102	70-144	
4-Chlorotoluene	ug/L	50	53.9	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	70-140	
Acetone	ug/L	100	101	101	50-175	
Benzene	ug/L	50	55.5	111	70-130	
Bromobenzene	ug/L	50	52.5	105	70-130	
Bromochloromethane	ug/L	50	57.0	114	70-130	
Bromodichloromethane	ug/L	50	56.0	112	70-130	
Bromoform	ug/L	50	52.0	104	70-130	
Bromomethane	ug/L	50	36.3	73	54-130	
Carbon tetrachloride	ug/L	50	59.7	119	70-132	
Chlorobenzene	ug/L	50	54.6	109	70-130	
Chloroethane	ug/L	50	66.2	132	64-134	
Chloroform	ug/L	50	55.2	110	70-130	
Chloromethane	ug/L	50	43.9	88	64-130	
cis-1,2-Dichloroethene	ug/L	50	54.7	109	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	53.5	107	70-130	
Dibromomethane	ug/L	50	53.6	107	70-131	
Dichlorodifluoromethane	ug/L	50	49.5	99	56-130	
Diisopropyl ether	ug/L	50	56.2	112	70-130	
Ethylbenzene	ug/L	50	54.8	110	70-130	
Hexachloro-1,3-butadiene	ug/L	50	54.4	109	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	56.4	113	70-130	
Methylene Chloride	ug/L	50	51.8	104	63-130	
Naphthalene	ug/L	50	50.1	100	70-138	
o-Xylene	ug/L	50	54.6	109	70-130	
p-Isopropyltoluene	ug/L	50	55.4	111	70-130	
Styrene	ug/L	50	54.2	108	70-130	
Tetrachloroethene	ug/L	50	54.7	109	70-130	
Toluene	ug/L	50	56.2	112	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.0	112	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.2	106	70-132	
Trichloroethene	ug/L	50	55.5	111	70-130	
Trichlorofluoromethane	ug/L	50	58.4	117	62-133	
Vinyl acetate	ug/L	100	114	114	66-157	
Vinyl chloride	ug/L	50	56.9	114	50-150	
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

MATRIX SPIKE SAMPLE: 1715692

Parameter	Units	92294339018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.9	104	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.8	119	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.6	98	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.2	106	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.3	111	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.7	118	70-166	
1,1-Dichloropropene	ug/L	ND	20	24.0	120	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	20.0	100	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.2	106	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.9	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.4	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.7	108	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.7	103	70-130	
1,2-Dichloroethane	ug/L	ND	20	21.4	107	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.8	109	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.7	108	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.0	110	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.1	106	70-130	
1,4-Dioxane (p-Dioxane)	ug/L	ND	400	208	52	70-130	M0
2,2-Dichloropropane	ug/L	ND	20	19.2	96	70-130	
2-Butanone (MEK)	ug/L	ND	40	40.5	101	70-130	
2-Chlorotoluene	ug/L	ND	20	21.8	109	70-130	
2-Hexanone	ug/L	ND	40	41.0	102	70-130	
4-Chlorotoluene	ug/L	ND	20	21.6	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	44.4	111	70-130	
Acetone	ug/L	ND	40	45.0	105	70-130	
Benzene	ug/L	ND	20	22.8	114	70-148	
Bromobenzene	ug/L	ND	20	21.0	105	70-130	
Bromochloromethane	ug/L	ND	20	22.6	113	70-130	
Bromodichloromethane	ug/L	ND	20	22.2	111	70-130	
Bromoform	ug/L	ND	20	19.2	96	70-130	
Bromomethane	ug/L	ND	20	8.7	43	70-130	M1
Carbon tetrachloride	ug/L	ND	20	24.0	120	70-130	
Chlorobenzene	ug/L	ND	20	21.7	108	70-146	
Chloroethane	ug/L	ND	20	28.8	144	70-130	M1
Chloroform	ug/L	ND	20	23.0	115	70-130	
Chloromethane	ug/L	ND	20	14.8	74	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.5	112	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.3	102	70-130	
Dibromochloromethane	ug/L	ND	20	20.2	101	70-130	
Dibromomethane	ug/L	ND	20	21.7	109	70-130	
Dichlorodifluoromethane	ug/L	ND	20	21.4	107	70-130	
Diisopropyl ether	ug/L	ND	20	22.3	112	70-130	
Ethylbenzene	ug/L	ND	20	22.6	113	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	21.3	107	70-130	
m&p-Xylene	ug/L	ND	40	44.1	110	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.6	113	70-130	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

MATRIX SPIKE SAMPLE: 1715692

Parameter	Units	92294339018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene Chloride	ug/L	ND	20	20.5	102	70-130	
Naphthalene	ug/L	ND	20	19.3	96	70-130	
o-Xylene	ug/L	ND	20	21.1	106	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.0	110	70-130	
Styrene	ug/L	ND	20	21.1	106	70-130	
Tetrachloroethene	ug/L	ND	20	22.3	111	70-130	
Toluene	ug/L	ND	20	22.3	112	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.4	117	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.6	98	70-130	
Trichloroethene	ug/L	ND	20	22.2	111	69-151	
Trichlorofluoromethane	ug/L	ND	20	26.6	133	70-130	M1
Vinyl acetate	ug/L	ND	40	33.7	84	70-130	
Vinyl chloride	ug/L	ND	20	24.6	123	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1715693

Parameter	Units	92294339019 Result	Dup Result	RPD	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-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
1,4-Dioxane (p-Dioxane)	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	

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

SAMPLE DUPLICATE: 1715693

Parameter	Units	92294339019 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	103	0		
4-Bromofluorobenzene (S)	%	99	98	2		
Toluene-d8 (S)	%	102	100	2		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

QC Batch: MSV/36459 | Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. | Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92294146001, 92294146002

METHOD BLANK: 1714095 | Matrix: Water
Associated Lab Samples: 92294146001, 92294146002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	04/19/16 22:44	
1,2-Dichloroethane-d4 (S)	%	101	50-150	04/19/16 22:44	
Toluene-d8 (S)	%	108	50-150	04/19/16 22:44	

LABORATORY CONTROL SAMPLE: 1714096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	17.5	87	71-125	
1,2-Dichloroethane-d4 (S)	%			103	50-150	
Toluene-d8 (S)	%			108	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1714097 1714098

Parameter	Units	92294222021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	16.6	17.0	83	85	50-150	2	30	
1,2-Dichloroethane-d4 (S)	%						100	103	50-150		150	
Toluene-d8 (S)	%						108	108	50-150		150	

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QUALIFIERS

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

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, Styrene, and Vinyl chloride.

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

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 39196-07 Kop Flex Hanover, MD
Pace Project No.: 92294146

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92294146001	**Trip Blank**	EPA 8260	MSV/36488		
92294146002	**MW-35-298**	EPA 8260	MSV/36494		
92294146001	**Trip Blank**	EPA 8260B Mod.	MSV/36459		
92294146002	**MW-35-298**	EPA 8260B Mod.	MSV/36459		

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Page 2 of 2 for Internal Use ONLY

Sample Condition Upon Receipt

Client Name: Kop - Flex

Project WO#: 92294146

92294146

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

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: BU 4/18

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:____

Thermometer: ☑ T1505 ☐ ____ **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☑ Samples on ice, cooling process has begun

Correction Factor: 0.0°C **Cooler Temp Corrected (°C):** 2.7 **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:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☑ No	☐ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: AQ				
All containers needing acid/base preservation have been checked?	☐ Yes	☑ No	☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☑ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	☑ Yes	☐ No	☐ N/A	
Samples checked for dechlorination	☐ Yes	☑ No	☐ N/A	14.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	15.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	16.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): ____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: ____ Date/Time: ____

Comments/Resolution: ____

Project Manager SCURF Review: JY **Date:** 4/18/16

Project Manager SRF Review: AMB **Date:** 4-18-16

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

CHAIN-OF-CUSTODY RECORD

No. 003448 WSP | PARSONS BRINCKERHOFF

WSP | Parsons Brinckerhoff Office Address: 13530 Dulles Technology Drive, Herndon VA

Project Name: Kop-Flex

WSP | Parsons Brinckerhoff Contact Name: Eric Johnson

Project Location: Hanover, MD

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

Project Number & Task: 39196-07

WSP | Parsons Brinckerhoff Contact Phone: (703) 709-6500

Sampler(s) Name(s): Rob Wallace, Ben Foster

Sampler(s) Signature(s): [signature]

Laboratory Name & Location: Pace 922 9446

Laboratory Project Manager: Kevin Godwin

Requested Turn-Around-Time: ☒ Standard ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ ___ HR 5-Day

Requested Analyses & Preservatives

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	VOCs (8260)	1,4-Dioxane (8260 V/SIM)								Sample Comments
Trip Blank	Aq	4/15/16	1300			4	X	X								001
MW-35-298	Aq	4/15/16	1345			6	X	X								002

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
[signature]	4/15/16	1430	[signature] Pace	4/16/16	930	Fedex	

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)
						1	00693

*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)

Enclosure E – Laboratory Analytical Reports
March 2016 Residential Well Samples

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e-Hardcopy 2.0
Automated Report

Technical Report for

WSP

090149-04, Kop-Flex, Hanover, MD

39196

SGS Accutest Job Number: JC16616

Sampling Date: 03/18/16

Report to:

WSP
11190 Sunrise Valley Drive Suite 300
Reston, VA 20190
eric.johnson@wspgroup.com

ATTN: Eric Johnson

Total number of pages in report: 35

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Mayur Patel 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

WSP

Job No: JC16616

090149-04, Kop-Flex, Hanover, MD
Project No: 39196

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC16616-1	03/18/16	09:40	LB	03/21/16	AQ	Ground Water	RW-7932AND-031816
JC16616-2	03/18/16	10:40	LB	03/21/16	AQ	Ground Water	RW-7740TD-031816
JC16616-3	03/18/16	10:40	LB	03/21/16	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: JC16616
Account: WSP
Project: 090149-04, Kop-Flex, Hanover, MD
Collected: 03/18/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC16616-1	**RW-7932AND-031816**					
1,1-Dichloroethene		3.8	1.0	0.51	ug/l	SW846 8260C
1,1,1-Trichloroethane		0.48 J	1.0	0.25	ug/l	SW846 8260C
1,4-Dioxane [a]		5.2	2.0	0.75	ug/l	SW846 8260C BY SIM
JC16616-2	**RW-7740TD-031816**					
1,1-Dichloroethene		2.5	1.0	0.51	ug/l	SW846 8260C
1,1,1-Trichloroethane		0.36 J	1.0	0.25	ug/l	SW846 8260C
JC16616-3	**TRIP BLANK**					

No hits reported in this sample.

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	RW-7932AND-031816		
Lab Sample ID:	JC16616-1	**Date Sampled:**	03/18/16
Matrix:	AQ - Ground Water	**Date Received:**	03/21/16
Method:	SW846 8260C BY SIM	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3C127616.D	1	03/23/16	PS	n/a	n/a	V3C5838
Run #2							

	Purge Volume
Run #1	10 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	5.2	2.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		36-149%
460-00-4	4-Bromofluorobenzene	98%		34-135%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-7932AND-031816		
Lab Sample ID:	JC16616-1	**Date Sampled:**	03/18/16
Matrix:	AQ - Ground Water	**Date Received:**	03/21/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D67698.D	1	03/22/16	XC	n/a	n/a	V4D2974
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.19	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.19	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	3.8	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-7932AND-031816		
Lab Sample ID:	JC16616-1	**Date Sampled:**	03/18/16
Matrix:	AQ - Ground Water	**Date Received:**	03/21/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.27	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.18	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	0.48	1.0	0.25	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.45	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.29	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	94%		84-119%
460-00-4	4-Bromofluorobenzene	87%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-7740TD-031816		
Lab Sample ID:	JC16616-2	**Date Sampled:**	03/18/16
Matrix:	AQ - Ground Water	**Date Received:**	03/21/16
Method:	SW846 8260C BY SIM	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3C127617.D	1	03/23/16	PS	n/a	n/a	V3C5838
Run #2							

	Purge Volume
Run #1	10 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	2.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		36-149%
460-00-4	4-Bromofluorobenzene	90%		34-135%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-7740TD-031816		
Lab Sample ID:	JC16616-2	**Date Sampled:**	03/18/16
Matrix:	AQ - Ground Water	**Date Received:**	03/21/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D67699.D	1	03/22/16	XC	n/a	n/a	V4D2974
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.19	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.19	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	2.5	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW-7740TD-031816		
Lab Sample ID:	JC16616-2	**Date Sampled:**	03/18/16
Matrix:	AQ - Ground Water	**Date Received:**	03/21/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.27	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.18	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	0.36	1.0	0.25	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.45	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.29	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		76-120%
17060-07-0	1,2-Dichloroethane-D4	103%		73-122%
2037-26-5	Toluene-D8	95%		84-119%
460-00-4	4-Bromofluorobenzene	87%		78-117%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JC16616-3	**Date Sampled:**	03/18/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/21/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D67706.D	1	03/22/16	XC	n/a	n/a	V4D2974
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.19	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.19	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JC16616-3	**Date Sampled:**	03/18/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/21/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	090149-04, Kop-Flex, Hanover, MD		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.27	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.18	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.45	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.29	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		73-122%
2037-26-5	Toluene-D8	93%		84-119%
460-00-4	4-Bromofluorobenzene	87%		78-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
1,4-Dioxane	123-91-1	**SW846 8260C BY SIM**	AQ	Accutest is not certified for this parameter.[a]
Methylene bromide	74-95-3	**SW846 8260C**	AQ	Accutest is not certified for this parameter.

(a) Analyte is in applied status with NJDEP for this reference method.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

RW
WTB

SUB

SGS ACCUTEST

UP

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE ___ OF ___

FED-EX Tracking # 6514 9166 7915
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # JC16616

Client / Reporting Information

Company Name: WSP
Street Address: 13530 Dulles Technology Drive, 300
City: Herndon State: VA Zip: 20171
Project Contact: Laura.Barsauskas@wspgroup.com E-mail:
Phone #: 703-709-6500 Fax #:
Sampler(s) Name(s): Laura Barsauskas / Rob Wallace Phone #:

Project Information

Project Name: Kop-Flex
Street:
City: State:
Project # 39196
Client Purchase Order #
Project Manager: Eric Johnson

Billing Information (if different from Report to)

Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs (8260)	1,4-Dioxane (8260 Vsim)	LAB USE ONLY
1	RW-7932AND-031816		3/18/16	0940	LRB	AQ	6	X				X				X	X	V795
2	RW 7740TO-031816		3/18/16	1040	RJW	Aq	6	X				X				X	X	SUB
3	TRIP BLANK		lab provided													X	X	

Number of preserved Bottles

INITIAL ASSESSMENT
LABEL VERIFICATION

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASSESSMENT RL 3/21
LABEL VERIFICATION OB

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 LAURA BARSAUSKAS	12:00	1 FEDEX	2 FEDEX	3-21-16 920	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 220 [x] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [x] Cooler Temp. 1.16

ID

JC16616: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC16616 **Client:** _____ **Project:** _____

Date / Time Received: 3/21/2016 9:20:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.1);

Cooler Temps (Corrected) °C: Cooler 1: (1.5);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

JC16616: Chain of Custody
Page 2 of 2

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5838-MB	3C127612.D	1	03/23/16	PS	n/a	n/a	V3C5838

The QC reported here applies to the following samples: **Method:** SW846 8260C BY SIM

JC16616-1, JC16616-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	2.0	0.75	ug/l	

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	96%	36-149%
460-00-4	4-Bromofluorobenzene	93%	34-135%

Method Blank Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D2974-MB	4D67693.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	0.50	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.19	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.23	ug/l	
75-25-2	Bromoform	ND	1.0	0.23	ug/l	
74-83-9	Bromomethane	ND	2.0	0.42	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	5.6	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.14	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.21	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.19	ug/l	
75-00-3	Chloroethane	ND	1.0	0.34	ug/l	
67-66-3	Chloroform	ND	1.0	0.19	ug/l	
74-87-3	Chloromethane	ND	1.0	0.41	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.19	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.99	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.15	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.23	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.19	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.23	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.27	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.90	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.17	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.51	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.27	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.65	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.39	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.15	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	

Method Blank Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D2974-MB	4D67693.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.26	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.23	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.21	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.27	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.73	ug/l	
91-20-3	Naphthalene	ND	5.0	0.20	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.21	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.18	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.40	ug/l	
108-88-3	Toluene	ND	1.0	0.16	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.23	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.21	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.43	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.45	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.29	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.15	ug/l	
	m,p-Xylene	ND	1.0	0.38	ug/l	
95-47-6	o-Xylene	ND	1.0	0.17	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.17	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	73-122%
2037-26-5	Toluene-D8	94%	84-119%
460-00-4	4-Bromofluorobenzene	86%	78-117%

Method Blank Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D2974-MB	4D67693.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:**

JC16616-1, JC16616-2, JC16616-3

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C5838-BS	3C127613.D	1	03/23/16	PS	n/a	n/a	V3C5838

The QC reported here applies to the following samples: **Method:** SW846 8260C BY SIM

JC16616-1, JC16616-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	42.6	85	44-138

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	89%	36-149%
460-00-4	4-Bromofluorobenzene	87%	34-135%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D2974-BS	4D67694.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	43.3	87	47-144
71-43-2	Benzene	50	41.4	83	81-119
108-86-1	Bromobenzene	50	42.4	85	83-118
74-97-5	Bromochloromethane	50	44.4	89	84-120
75-27-4	Bromodichloromethane	50	45.8	92	81-125
75-25-2	Bromoform	50	44.5	89	74-128
74-83-9	Bromomethane	50	52.6	105	52-146
78-93-3	2-Butanone (MEK)	50	45.8	92	68-130
104-51-8	n-Butylbenzene	50	41.0	82	79-127
135-98-8	sec-Butylbenzene	50	41.0	82	78-124
98-06-6	tert-Butylbenzene	50	41.9	84	77-127
56-23-5	Carbon tetrachloride	50	45.1	90	77-140
108-90-7	Chlorobenzene	50	42.5	85	84-116
75-00-3	Chloroethane	50	45.9	92	70-148
67-66-3	Chloroform	50	46.9	94	81-120
74-87-3	Chloromethane	50	46.4	93	50-143
95-49-8	o-Chlorotoluene	50	40.9	82	82-118
106-43-4	p-Chlorotoluene	50	39.8	80	80-116
96-12-8	1,2-Dibromo-3-chloropropane	50	41.9	84	66-132
124-48-1	Dibromochloromethane	50	45.8	92	81-122
106-93-4	1,2-Dibromoethane	50	44.2	88	81-120
95-50-1	1,2-Dichlorobenzene	50	42.5	85	80-117
541-73-1	1,3-Dichlorobenzene	50	40.4	81	81-116
106-46-7	1,4-Dichlorobenzene	50	41.2	82	80-115
75-71-8	Dichlorodifluoromethane	50	54.2	108	36-169
75-34-3	1,1-Dichloroethane	50	42.1	84	80-125
107-06-2	1,2-Dichloroethane	50	48.0	96	78-131
75-35-4	1,1-Dichloroethene	50	40.6	81	73-127
156-59-2	cis-1,2-Dichloroethene	50	43.8	88	77-118
156-60-5	trans-1,2-Dichloroethene	50	40.6	81	75-118
78-87-5	1,2-Dichloropropane	50	42.0	84	80-124
142-28-9	1,3-Dichloropropane	50	40.8	82	78-119
594-20-7	2,2-Dichloropropane	50	46.0	92	62-138
563-58-6	1,1-Dichloropropene	50	43.7	87	77-119
10061-01-5	cis-1,3-Dichloropropene	50	44.2	88	72-121
10061-02-6	trans-1,3-Dichloropropene	50	44.8	90	73-122

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D2974-BS	4D67694.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	50	42.6	85	80-118
87-68-3	Hexachlorobutadiene	50	43.5	87	70-136
98-82-8	Isopropylbenzene	50	41.2	82	78-125
99-87-6	p-Isopropyltoluene	50	43.1	86	81-124
1634-04-4	Methyl Tert Butyl Ether	100	91.4	91	73-122
108-10-1	4-Methyl-2-pentanone(MIBK)	50	42.2	84	73-129
74-95-3	Methylene bromide	50	44.8	90	84-123
75-09-2	Methylene chloride	50	40.2	80	75-122
91-20-3	Naphthalene	50	41.2	82	66-136
103-65-1	n-Propylbenzene	50	41.5	83	81-126
100-42-5	Styrene	50	45.5	91	81-121
630-20-6	1,1,1,2-Tetrachloroethane	50	44.6	89	81-123
79-34-5	1,1,2,2-Tetrachloroethane	50	39.1	78	69-116
127-18-4	Tetrachloroethene	50	44.5	89	69-138
108-88-3	Toluene	50	43.9	88	80-122
87-61-6	1,2,3-Trichlorobenzene	50	41.6	83	74-137
120-82-1	1,2,4-Trichlorobenzene	50	42.8	86	75-135
71-55-6	1,1,1-Trichloroethane	50	48.5	97	80-131
79-00-5	1,1,2-Trichloroethane	50	42.7	85	78-122
79-01-6	Trichloroethene	50	44.9	90	83-122
75-69-4	Trichlorofluoromethane	50	51.8	104	66-143
96-18-4	1,2,3-Trichloropropane	50	40.7	81	76-120
95-63-6	1,2,4-Trimethylbenzene	50	42.7	85	82-125
108-67-8	1,3,5-Trimethylbenzene	50	42.3	85	79-123
75-01-4	Vinyl chloride	50	49.8	100	57-138
	m,p-Xylene	100	84.7	85	82-119
95-47-6	o-Xylene	50	44.7	89	82-119
1330-20-7	Xylene (total)	150	129	86	82-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	76-120%
17060-07-0	1,2-Dichloroethane-D4	100%	73-122%
2037-26-5	Toluene-D8	96%	84-119%
460-00-4	4-Bromofluorobenzene	86%	78-117%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC16616-1MS	4D67702.D	1	03/22/16	XC	n/a	n/a	V4D2974
JC16616-1	4D67698.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	JC16616-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		50	42.1	84	33-158
71-43-2	Benzene	ND		50	43.6	87	43-138
108-86-1	Bromobenzene	ND		50	44.0	88	72-126
74-97-5	Bromochloromethane	ND		50	45.9	92	75-127
75-27-4	Bromodichloromethane	ND		50	46.5	93	72-128
75-25-2	Bromoform	ND		50	42.8	86	70-131
74-83-9	Bromomethane	ND		50	57.8	116	47-142
78-93-3	2-Butanone (MEK)	ND		50	45.3	91	56-146
104-51-8	n-Butylbenzene	ND		50	45.4	91	50-142
135-98-8	sec-Butylbenzene	ND		50	45.0	90	52-138
98-06-6	tert-Butylbenzene	ND		50	44.6	89	55-137
56-23-5	Carbon tetrachloride	ND		50	49.2	98	45-149
108-90-7	Chlorobenzene	ND		50	45.4	91	70-124
75-00-3	Chloroethane	ND		50	53.5	107	47-139
67-66-3	Chloroform	ND		50	48.5	97	66-126
74-87-3	Chloromethane	ND		50	55.1	110	41-140
95-49-8	o-Chlorotoluene	ND		50	43.7	87	66-128
106-43-4	p-Chlorotoluene	ND		50	42.1	84	66-124
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	41.6	83	64-136
124-48-1	Dibromochloromethane	ND		50	45.9	92	75-126
106-93-4	1,2-Dibromoethane	ND		50	44.5	89	77-124
95-50-1	1,2-Dichlorobenzene	ND		50	43.9	88	71-124
541-73-1	1,3-Dichlorobenzene	ND		50	43.1	86	69-125
106-46-7	1,4-Dichlorobenzene	ND		50	43.0	86	69-122
75-71-8	Dichlorodifluoromethane	ND		50	65.6	131	24-161
75-34-3	1,1-Dichloroethane	ND		50	45.4	91	60-129
107-06-2	1,2-Dichloroethane	ND		50	47.8	96	72-133
75-35-4	1,1-Dichloroethene	3.8		50	50.7	94	40-137
156-59-2	cis-1,2-Dichloroethene	ND		50	45.9	92	57-128
156-60-5	trans-1,2-Dichloroethene	ND		50	45.4	91	53-128
78-87-5	1,2-Dichloropropane	ND		50	43.3	87	69-127
142-28-9	1,3-Dichloropropane	ND		50	42.2	84	73-123
594-20-7	2,2-Dichloropropane	ND		50	50.8	102	49-140
563-58-6	1,1-Dichloropropene	ND		50	48.1	96	47-137
10061-01-5	cis-1,3-Dichloropropene	ND		50	45.0	90	67-129
10061-02-6	trans-1,3-Dichloropropene	ND		50	44.0	88	68-130

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC16616-1MS	4D67702.D	1	03/22/16	XC	n/a	n/a	V4D2974
JC16616-1	4D67698.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	JC16616-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
100-41-4	Ethylbenzene	ND		50	45.6	91	38-139
87-68-3	Hexachlorobutadiene	ND		50	48.7	97	40-149
98-82-8	Isopropylbenzene	ND		50	44.9	90	54-137
99-87-6	p-Isopropyltoluene	ND		50	46.7	93	57-135
1634-04-4	Methyl Tert Butyl Ether	ND		100	94.1	94	64-132
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		50	42.1	84	68-139
74-95-3	Methylene bromide	ND		50	44.0	88	77-127
75-09-2	Methylene chloride	ND		50	43.1	86	63-128
91-20-3	Naphthalene	ND		50	43.1	86	57-149
103-65-1	n-Propylbenzene	ND		50	45.1	90	49-136
100-42-5	Styrene	ND		50	47.3	95	61-134
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	46.7	93	72-130
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	39.8	80	67-126
127-18-4	Tetrachloroethene	ND		50	49.3	99	43-145
108-88-3	Toluene	ND		50	46.1	92	51-136
87-61-6	1,2,3-Trichlorobenzene	ND		50	44.2	88	66-140
120-82-1	1,2,4-Trichlorobenzene	ND		50	45.5	91	65-138
71-55-6	1,1,1-Trichloroethane	0.48	J	50	54.1	107	51-141
79-00-5	1,1,2-Trichloroethane	ND		50	42.6	85	71-127
79-01-6	Trichloroethene	ND		50	47.5	95	55-136
75-69-4	Trichlorofluoromethane	ND		50	60.6	121	33-157
96-18-4	1,2,3-Trichloropropane	ND		50	41.3	83	74-127
95-63-6	1,2,4-Trimethylbenzene	ND		50	45.7	91	40-143
108-67-8	1,3,5-Trimethylbenzene	ND		50	45.2	90	54-135
75-01-4	Vinyl chloride	ND		50	60.5	121	34-147
	m,p-Xylene	ND		100	90.3	90	42-139
95-47-6	o-Xylene	ND		50	47.6	95	56-134
1330-20-7	Xylene (total)	ND		150	138	92	46-137

CAS No.	Surrogate Recoveries	MS	JC16616-1	Limits
1868-53-7	Dibromofluoromethane	97%	98%	76-120%
17060-07-0	1,2-Dichloroethane-D4	99%	103%	73-122%
2037-26-5	Toluene-D8	95%	94%	84-119%
460-00-4	4-Bromofluorobenzene	87%	87%	78-117%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC16616-1MS [a]	3C127614.D	1	03/23/16	PS	n/a	n/a	V3C5838
JC16616-1MSD [a]	3C127615.D	1	03/23/16	PS	n/a	n/a	V3C5838
JC16616-1 [a]	3C127616.D	1	03/23/16	PS	n/a	n/a	V3C5838

The QC reported here applies to the following samples: **Method:** SW846 8260C BY SIM

JC16616-1, JC16616-2

CAS No.	Compound	JC16616-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	5.2		50	46.1	82	50	50.7	91	10	18-178/34

CAS No.	Surrogate Recoveries	MS	MSD	JC16616-1	Limits
2037-26-5	Toluene-D8	91%	99%	102%	36-149%
460-00-4	4-Bromofluorobenzene	88%	96%	98%	34-135%

(a) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC16616-2DUP	4D67704.D	1	03/22/16	XC	n/a	n/a	V4D2974
JC16616-2	4D67699.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	JC16616-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	30
71-43-2	Benzene	ND		ND		nc	30
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	2.5		2.1		17	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC16616-2DUP	4D67704.D	1	03/22/16	XC	n/a	n/a	V4D2974
JC16616-2	4D67699.D	1	03/22/16	XC	n/a	n/a	V4D2974

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC16616-1, JC16616-2, JC16616-3

CAS No.	Compound	JC16616-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
100-41-4	Ethylbenzene	ND		ND		nc	30
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	30
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
74-95-3	Methylene bromide	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	30
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	30
100-42-5	Styrene	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	30
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	0.36	J	0.28	J	25	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	30
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	30
95-47-6	o-Xylene	ND		ND		nc	30
1330-20-7	Xylene (total)	ND		ND		nc	30

CAS No.	Surrogate Recoveries	DUP	JC16616-2	Limits
1868-53-7	Dibromofluoromethane	98%	98%	76-120%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	73-122%
2037-26-5	Toluene-D8	94%	95%	84-119%
460-00-4	4-Bromofluorobenzene	87%	87%	78-117%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample: V3C5837-BFB
Lab File ID: 3C127590.D
Instrument ID: GCMS3C
Injection Date: 03/22/16
Injection Time: 10:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12816	21.0		Pass
75	30.0 - 60.0% of mass 95	31363	51.4		Pass
95	Base peak, 100% relative abundance	60971	100.0		Pass
96	5.0 - 9.0% of mass 95	4469	7.33		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	46077	75.6		Pass
175	5.0 - 9.0% of mass 174	3766	6.18	(8.17) [a]	Pass
176	95.0 - 101.0% of mass 174	44891	73.6	(97.4) [a]	Pass
177	5.0 - 9.0% of mass 176	3207	5.26	(7.14) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3C5837-CC5822	3C127592.D	03/22/16	12:11	01:12	Continuing cal 20
V3C5837-MB	3C127594.D	03/22/16	13:13	02:14	Method Blank
V3C5837-BS	3C127595.D	03/22/16	13:40	02:41	Blank Spike
JC16674-1	3C127599.D	03/22/16	15:32	04:33	(used for QC only; not part of job JC16616)
JC16674-3	3C127600.D	03/22/16	16:00	05:01	(used for QC only; not part of job JC16616)
JC16674-1DUP	3C127601.D	03/22/16	16:28	05:29	Duplicate
JC16674-3MS	3C127602.D	03/22/16	16:56	05:57	Matrix Spike
ZZZZZZ	3C127604.D	03/22/16	17:52	06:53	(unrelated sample)
ZZZZZZ	3C127606.D	03/22/16	18:49	07:50	(unrelated sample)
ZZZZZZ	3C127607.D	03/22/16	19:17	08:18	(unrelated sample)
ZZZZZZ	3C127608.D	03/22/16	19:45	08:46	(unrelated sample)
V3C5838-CC5829	3C127611.D	03/23/16	09:50	22:51	Continuing cal 50
V3C5838-MB	3C127612.D	03/23/16	10:25	23:26	Method Blank
V3C5838-BS	3C127613.D	03/23/16	10:56	23:57	Blank Spike
JC16616-1MS	3C127614.D	03/23/16	11:25	24:26	Matrix Spike
JC16616-1MSD	3C127615.D	03/23/16	11:50	24:51	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample: V4D2934-BFB
Lab File ID: 4D66724.D
Instrument ID: GCMS4D
Injection Date: 02/12/16
Injection Time: 16:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	13352	17.1		Pass
75	30.0 - 60.0% of mass 95	35565	45.6		Pass
95	Base peak, 100% relative abundance	77995	100.0		Pass
96	5.0 - 9.0% of mass 95	5248	6.73		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	66189	84.9		Pass
175	5.0 - 9.0% of mass 174	5224	6.70	(7.89) [a]	Pass
176	95.0 - 101.0% of mass 174	64763	83.0	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	4274	5.48	(6.60) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D2934-IC2934	4D66725.D	02/12/16	17:10	00:54	Initial cal 0.2
V4D2934-IC2934	4D66726.D	02/12/16	17:37	01:21	Initial cal 0.5
V4D2934-IC2934	4D66727.D	02/12/16	18:05	01:49	Initial cal 1
V4D2934-IC2934	4D66728.D	02/12/16	18:32	02:16	Initial cal 2
V4D2934-IC2934	4D66729.D	02/12/16	19:00	02:44	Initial cal 5
V4D2934-IC2934	4D66730.D	02/12/16	19:27	03:11	Initial cal 10
V4D2934-IC2934	4D66731.D	02/12/16	19:55	03:39	Initial cal 20
V4D2934-ICC2934	4D66732.D	02/12/16	20:22	04:06	Initial cal 50
V4D2934-IC2934	4D66733.D	02/12/16	20:49	04:33	Initial cal 100
V4D2934-IC2934	4D66734.D	02/12/16	21:17	05:01	Initial cal 200
V4D2934-ICV2934	4D66737.D	02/12/16	22:39	06:23	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Sample: V4D2974-BFB
Lab File ID: 4D67690.D
Instrument ID: GCMS4D
Injection Date: 03/22/16
Injection Time: 08:39

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16454	17.9		Pass
75	30.0 - 60.0% of mass 95	43672	47.5		Pass
95	Base peak, 100% relative abundance	91997	100.0		Pass
96	5.0 - 9.0% of mass 95	6061	6.59		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	82429	89.6		Pass
175	5.0 - 9.0% of mass 174	6588	7.16	(7.99) [a]	Pass
176	95.0 - 101.0% of mass 174	79941	86.9	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	5206	5.66	(6.51) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D2974-CC2934	4D67691.D	03/22/16	09:22	00:43	Continuing cal 20
V4D2974-MB	4D67693.D	03/22/16	10:30	01:51	Method Blank
V4D2974-BS	4D67694.D	03/22/16	10:59	02:20	Blank Spike
ZZZZZZ	4D67696.D	03/22/16	11:52	03:13	(unrelated sample)
ZZZZZZ	4D67697.D	03/22/16	12:20	03:41	(unrelated sample)
JC16616-1	4D67698.D	03/22/16	12:47	04:08	RW-7932AND-031816
JC16616-2	4D67699.D	03/22/16	13:14	04:35	RW-7740TD-031816
ZZZZZZ	4D67700.D	03/22/16	13:42	05:03	(unrelated sample)
ZZZZZZ	4D67701.D	03/22/16	14:36	05:57	(unrelated sample)
JC16616-1MS	4D67702.D	03/22/16	15:04	06:25	Matrix Spike
JC16616-2DUP	4D67704.D	03/22/16	15:59	07:20	Duplicate
ZZZZZZ	4D67705.D	03/22/16	16:27	07:48	(unrelated sample)
JC16616-3	4D67706.D	03/22/16	16:54	08:15	TRIP BLANK
ZZZZZZ	4D67707.D	03/22/16	17:22	08:43	(unrelated sample)
ZZZZZZ	4D67708.D	03/22/16	17:49	09:10	(unrelated sample)
ZZZZZZ	4D67709.D	03/22/16	18:17	09:38	(unrelated sample)
ZZZZZZ	4D67710.D	03/22/16	18:44	10:05	(unrelated sample)
ZZZZZZ	4D67711.D	03/22/16	19:12	10:33	(unrelated sample)
ZZZZZZ	4D67712.D	03/22/16	19:39	11:00	(unrelated sample)

Volatile Surrogate Recovery Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Method: SW846 8260C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
JC16616-1	3C127616.D	102	98
JC16616-2	3C127617.D	93	90
JC16616-1MS	3C127614.D	91	88
JC16616-1MSD	3C127615.D	99	96
V3C5838-BS	3C127613.D	89	87
V3C5838-MB	3C127612.D	96	93

Surrogate Compounds	Recovery Limits
S1 = Toluene-D8	36-149%
S2 = 4-Bromofluorobenzene	34-135%

Volatile Surrogate Recovery Summary

Job Number: JC16616
Account: ESCVAR WSP
Project: 090149-04, Kop-Flex, Hanover, MD

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC16616-1	4D67698.D	98	103	94	87
JC16616-2	4D67699.D	98	103	95	87
JC16616-3	4D67706.D	97	101	93	87
JC16616-1MS	4D67702.D	97	99	95	87
JC16616-2DUP	4D67704.D	98	100	94	87
V4D2974-BS	4D67694.D	98	100	96	86
V4D2974-MB	4D67693.D	96	101	94	86

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%