

July 12, 2021
File No. 25221094.00

Mr. Matt Vitale
Wisconsin Department of Natural Resources
1300 W Clairemont Ave.
Eau Claire, WI 54701-6127

Subject: Site Investigation Work Plan Addendum
Blackhawk Drycleaners
700 East Blackhawk Avenue
BRRTS #02-12-552357

Dear Mr. Vitale:

SCS Engineers (SCS) has prepared this Site Investigation Work Plan (SIWP) Addendum for the Blackhawk Drycleaners site for approval by the Wisconsin Department of Natural Resources (WDNR). Our original SIWP was submitted on May 12, 2021.

In an email dated May 21, 2021, the WDNR recommended changes to the proposed monitoring well network presented in our original SIWP, including the following:

- Addition of a piezometer near source property monitoring well MW-04.
- Moving the proposed South Dousman Street monitoring well north, closer to the source property.
- Eliminating downgradient monitoring wells proposed for East Wisconsin Street and South Ohio Street.

SCS subsequently performed additional groundwater monitoring to further assess monitoring well locations. Based on groundwater monitoring results to date, we concur with WDNR's proposed changes, but with minor proposed monitoring well/piezometer location adjustments to account for access limitations. The revised proposed locations are shown on revised **Figure 3**. Additional details are provided below.

JUNE 2021 GROUNDWATER MONITORING

On June 23, 2021, SCS measured water levels and collected groundwater samples from monitoring wells MW-01 through MW-05. The samples were submitted to Pace Analytical of Green Bay, Wisconsin, for laboratory analysis of volatile organic compounds (VOCs). The laboratory report is included in **Attachment A**. Groundwater monitoring results are summarized in **Tables 1** and **2**, and below.

- Tetrachloroethene (PCE) was detected in all of the samples.



- PCE was detected in excess of the NR 140 enforcement standard (ES) in samples from monitoring wells MW-02, MW-03, and MW-04.
- PCE was detected in excess of the NR 140 preventive action limit (PAL), but less than the ES in samples from monitoring wells MW-01 and MW-05. The MW-01 PCE concentration was reported as an estimated concentration above the laboratory limit of detection (LOD) but below the limit of quantitation (LOQ).
- TCE was detected in the MW-04 sample at a concentration less than the PAL and between the laboratory LOD and LOQ.
- Based on water level measurements groundwater flow was to the southwest at a gradient of approximately 0.001 feet per foot (**Figure 4**).

PROPOSED MONITORING WELL NETWORK

Based on groundwater monitoring results to date it appears groundwater flow fluctuates from west to southwest with wells MW-03 and MW-04 exhibiting significant fluctuations in PCE concentrations. Given these variables we think that the revised monitoring well network shown on **Figure 3**, which positions downgradient wells nearer the source property is appropriate. The new wells will be constructed using 2-inch diameter PVC casing and slotted well screens with flush-mount protective casings and locking well plugs. Proposed construction depths and screen intervals are provided below:

- Water table monitoring wells will be constructed to a depth of approximately 30 feet below ground surface (bgs) with 15 feet of well screen.
- The piezometer nearest well MW-04 will be constructed to a depth of approximately 55 feet with 5 feet of well screen.
- The furthest downgradient piezometer will be constructed to a depth of approximately 65 feet with 5 feet of well screen.

Please contact Robert Langdon at (608) 212-3995 or rlangdon@SCSEngineers.com if you have any questions concerning this SIWP Addendum.

Sincerely,



Robert Langdon
Senior Project Manager
SCS Engineers



Mark R. Huber, PE
Project Director
SCS Engineers

REL/AJR/MRH

cc: Garth Frable, City of Prairie du Chien

Matt Vitale
July 12, 2021
Page 3

Attachments: Table 1 – Groundwater Analytical Results – VOCs
Table 2 – Water Level Summary Table
Figure 3 – Groundwater Results and Proposed Monitoring Wells
Figure 4 – Water Table Map – June 23, 2021
Attachment A – Laboratory Report

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Tables

- 1 Groundwater Analytical Results Summary - VOCs
- 2 Water Level Summary

Table 1. Groundwater Analytical Results Summary - VOCs
Blackhawk Junction - Prairie du Chien, WI / SCS Engineers Project #2521094.00
 (Results are in µg/L)

Sample	Date	Lab Notes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Other VOCs
MW-01	2/1/2021	(1)	<u>0.92</u>	<0.15	<0.20	<0.19 v2	<0.099	ND
	4/7/2021	--	<1.0	<1.0	<1.0	<1.0	<1.0	ND
	6/23/2021	--	<u>0.66</u> J	<0.32	<0.47	<0.53	<0.17	ND
MW-02	2/1/2021	(2)	<u>11.9</u>	<0.15	<0.20	<0.19 v2	<0.099	ND
	4/8/2021	--	<u>8.7</u>	<1.0	<1.0	<1.0	<1.0	ND
	6/23/2021	(3)	<u>9.0</u>	<0.32	<0.47	<0.53	<0.17	ND
MW-03	2/2/2021	(2)	<u>25.2</u>	<0.15	<0.20	<0.19 v2	<0.099	ND
	4/8/2021	--	<u>5.2</u>	<1.0	<1.0	<1.0	<1.0	ND
	6/23/2021	(3)	<u>42.6</u>	<0.32	<0.47	<0.53	<0.17	ND
MW-04	2/2/2021	(2)	<u>228</u>	<u>0.64</u>	<0.20	<0.19 v2	<0.099	ND
	2/2/2021 (Dup)	(1)	<u>222</u>	<u>0.57</u>	<0.20	<0.19 v2	<0.099	ND
	4/8/2021	--	<u>8.3</u>	<1.0	<1.0	<1.0	<1.0	ND
	4/8/2021 (Dup)	--	<u>8.3</u>	<1.0	<1.0	<1.0	<1.0	ND
	6/23/2021	(3)	<u>196</u>	0.34 J	<0.47	<0.53	<0.17	ND
	6/23/2021 (Dup)	(3)	<u>202</u>	<0.32	<0.47	<0.53	<0.17	ND
MW-05	2/2/2021	(2)	<u>2.0</u>	<0.15	<0.20	<0.19 v2	<0.099	ND
	4/8/2021	--	<u>0.96</u> J	<1.0	<1.0	<1.0	<1.0	Methylene Chloride 0.34 J
	6/23/2021	(3)	<u>2.5</u>	<0.32	<0.47	<0.53	<0.17	ND
Trip Blank	2/1/2021	(2)	<0.17	<0.15	<0.20	<0.19 v2	<0.099	ND
	4/5/2021	--	<1.0	<1.0	<1.0	<1.0	<1.0	ND
	6/23/2021	--	<0.41	<0.32	<0.47	<0.53	<0.17	ND
Field Blank	2/2/2021	--	<0.17	<0.15	<0.20	<0.19	<0.099	Acetone 14.3 2-Butanone (MEK) 1.1 J Diethyl ether (Ethyl Ether) 0.52 J Ethylbenzene 0.12 J 4-Methyl-2-pentanone (MIBK) 0.77 J Toluene 0.33 J Xylenes (Total) 0.45 J m&p-Xylene 0.29 J o-Xylene 0.16 J
NR 140 Enforcement Standards (ESs)			5	5	70	100	0.2	Acetone 9,000 2-Butanone (MEK) 4,000 Diethyl ether (Ethyl ether) 1,000 Ethylbenzene 700 4-Methyl-2-pentanone (MIBK) 500 Methylene Chloride 5 Toluene 800 Xylenes (Total) 2,000 m&p-Xylene NE o-Xylene NE
NR 140 Preventive Action Limits (PALs)			0.5	0.5	7	20	0.02	Acetone 1,800 2-Butanone (MEK) 800 Diethyl ether (Ethyl ether) 100 Ethylbenzene 140 4-Methyl-2-pentanone (MIBK) 50 Methylene Chloride 0.5 Toluene 160 Xylenes (Total) 400 m&p-Xylene NE o-Xylene NE

Table 1. Groundwater Analytical Results Summary - VOCs
Blackhawk Junction - Prairie du Chien, WI / SCS Engineers Project #2521094.00
 (Results are in µg/L)

Abbreviations:

µg/L = micrograms per liter or parts per billion (ppb)
 PCE = Tetrachloroethene
 (Dup) = Duplicate Sample
 -- = Not Applicable

cis-1,2-DCE = cis-1,2-Dichloroethene
 TCE = Trichloroethene
 NA = Not Analyzed
 NE = No Standard Established

trans-1,2-DCE = trans-1,2-Dichloroethene
 VOCs = Volatile Organic Compounds
 ND = Not Detected

Notes:

NR 140 ESs - Wisconsin Administrative Code (WAC), Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2021.

NR 140 PALs - WAC, Chapter NR 140.10 Table 1 - Public Health Groundwater Quality Standards from February 2021.

All samples analyzed for full VOC list.

February and April 2021 samples collected by Bay West.

values meet or exceed NR 140 ESs.

values meet or exceed NR 140 PALs.

Laboratory Notes/Qualifiers:

1M = This analyte did not meet the secondary source verification criteria for the initial calibration. Analyte recovery exceeded the 130% upper control limit at 156%. Results may be biased high.

J = Estimated concentration at or above the LOD and below the LOQ.

L1 = Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

v2 = The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

(1) Allyl chloride, Bromoform, trans-1,3-Dichloropropene, Diethyl ether (Ethyl ether), and Methylene Chloride = v2
 Bromomethane = 1M

(2) Allyl chloride, Bromoform, 1,3-Dichloropropane, Diethyl ether (Ethyl ether), and Methylene Chloride = v2
 Bromomethane = 1M

(3) Carbon tetrachloride = L1

Created by: REL Date: 6/26/2021

Last revision by: LMH Date: 7/1/2021

Checked by: AJR Date: 7/2/2021

Proj Mgr QA/QC: REL Date: 7/7/2021

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Table 2. Water Level Summary
Blackhawk Junction - Prairie du Chien, WI / SCS Engineers Project # 25221094.00

Raw Data	Depth to Water in feet below top of well casing				
	MW1	MW2	MW3	MW4	MW5
Measurement Date					
February 1, 2021	23.29	23.79	24.12	23.23	20.45
April 7, 2021	23.10	23.50	23.85	22.85	20.02
June 23, 2021	23.24	23.86	24.25	23.29	20.51
Ground Water Elevation in feet relative to arbitrary datum					
Well Number	MW1	MW2	MW3	MW4	MW5
Top of Casing Elevation (ft)	103.87	104.14	104.54	103.55	100.61
Screen Length (ft)	15	15	15	15	15
Total Depth (ft from top of casing)	31.35	30.41	32.74	32.26	29.75
Top of Well Screen Elevation (ft)	87.52	88.73	86.80	86.29	85.86
Measurement Date					
February 1, 2021	80.58	80.35	80.42	80.32	80.16
April 7, 2021	80.77	80.64	80.69	80.70	80.59
June 23, 2021	80.63	80.28	80.29	80.26	80.10
Bottom of Well Elevation (ft)	72.52	73.73	71.80	71.29	70.86

Notes:

February and April 2021 water levels, top of casing elevations, and well construction details from May 2021 Bay West Limited Site Investigation Report.

NM = not measured

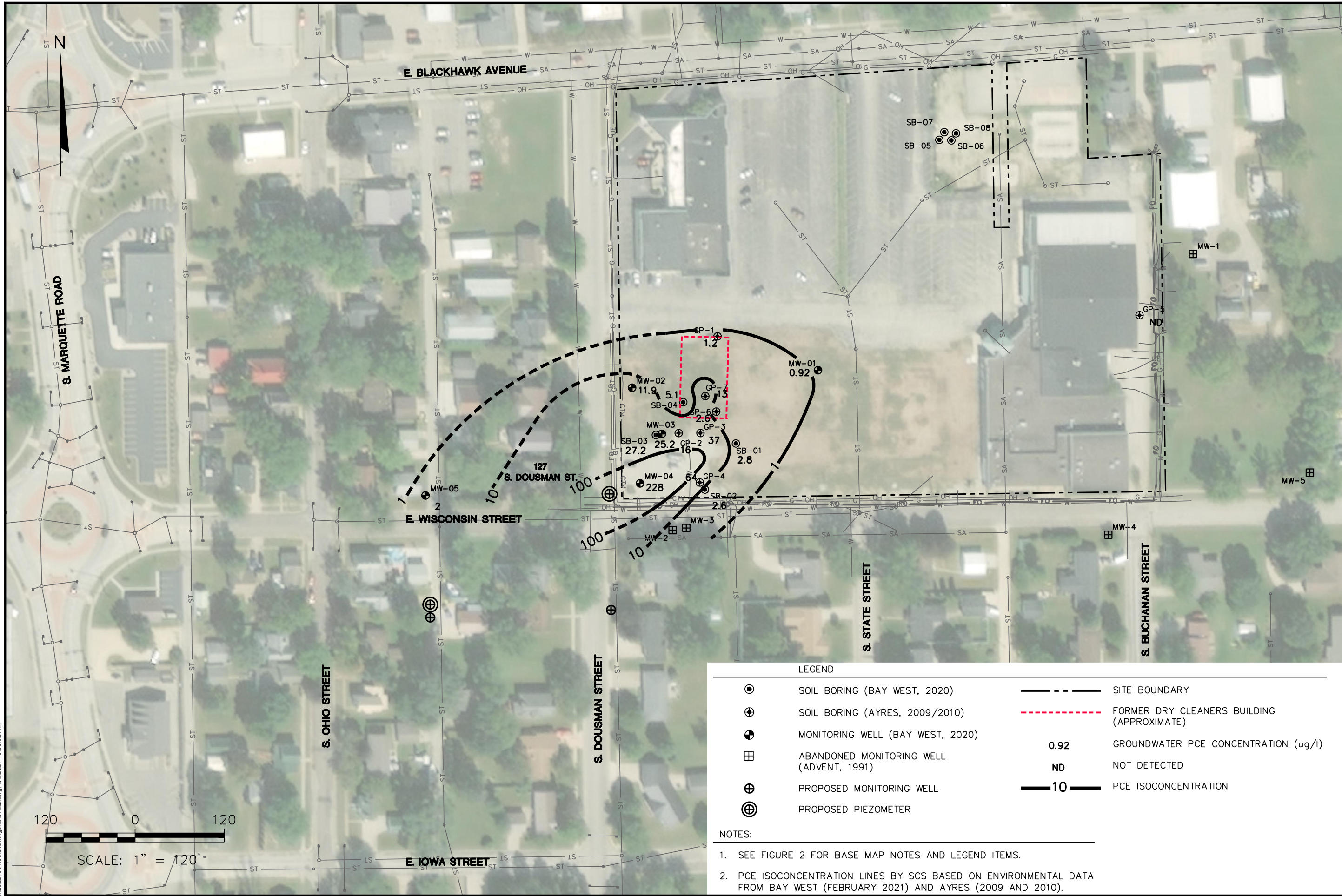
Created by:	<u>REL</u>	Date:	<u>6/26/2021</u>
Last revision by:	<u>REL</u>	Date:	<u>6/26/2021</u>
Checked by:	<u>LMH</u>	Date:	<u>6/28/2021</u>
Proj Mgr QA/QC:	<u>REL</u>	Date:	<u>6/28/2021</u>

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Figures

- 3 Groundwater Results and Proposed Monitoring Wells
- 4 Water Table Map – June 23, 2021

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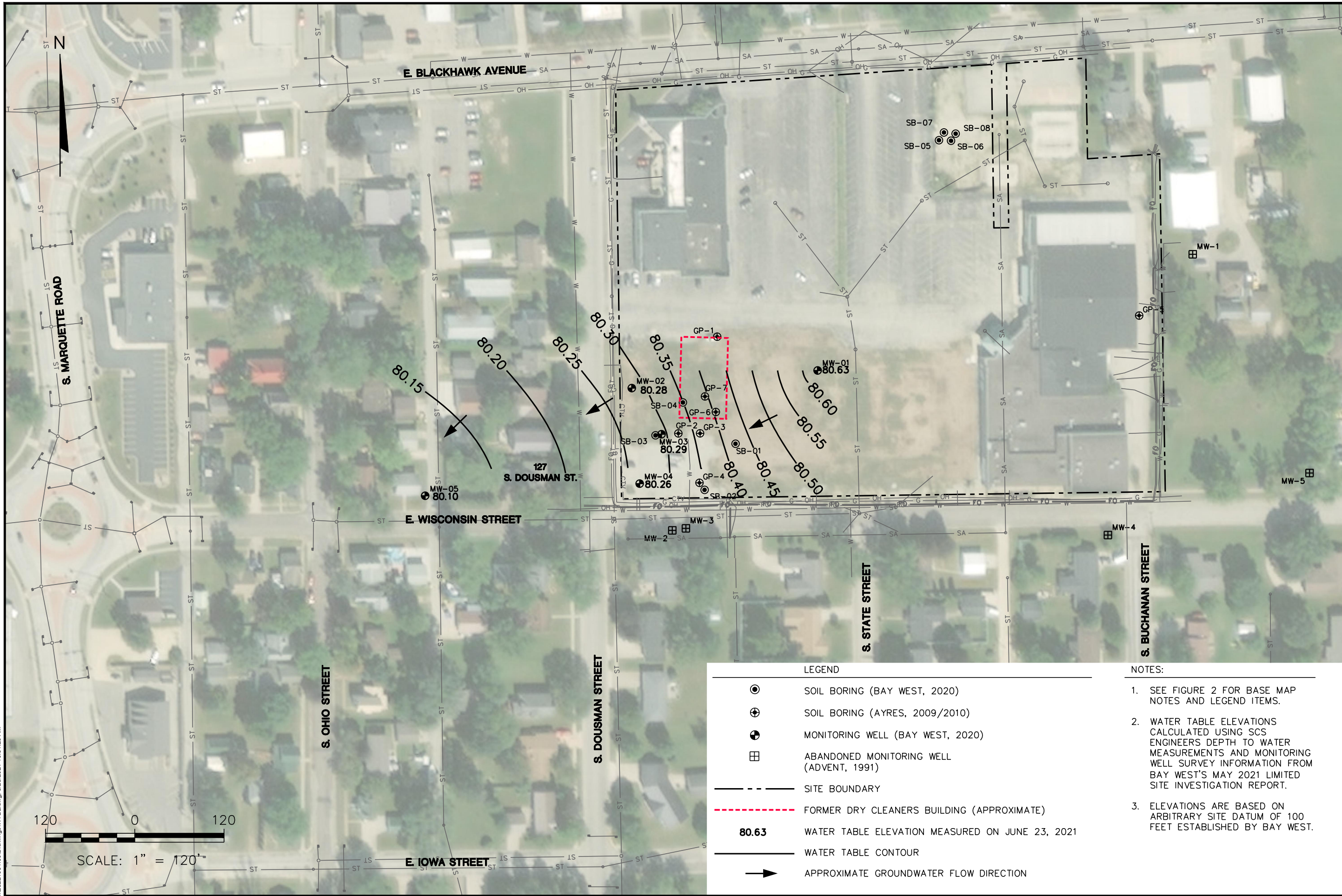


LEGEND	
	SOIL BORING (BAY WEST, 2020)
	SOIL BORING (AYRES, 2009/2010)
	MONITORING WELL (BAY WEST, 2020)
	ABANDONED MONITORING WELL (ADVENT, 1991)
	PROPOSED MONITORING WELL
	PROPOSED PIEZOMETER
	SITE BOUNDARY
	FORMER DRY CLEANERS BUILDING (APPROXIMATE)
	0.92 GROUNDWATER PCE CONCENTRATION (ug/l)
	ND NOT DETECTED
	10 PCE ISOCONCENTRATION

- NOTES:
- SEE FIGURE 2 FOR BASE MAP NOTES AND LEGEND ITEMS.
 - PCE ISOCONCENTRATION LINES BY SCS BASED ON ENVIRONMENTAL DATA FROM BAY WEST (FEBRUARY 2021) AND AYRES (2009 AND 2010).

CLIENT PRAIRIE DU CHIEN REDEVELOPMENT AUTHORITY	PROJECT NO.	25221094.00	ENGINEER	SCS ENGINEERS 2830 DAIRY DRIVE MADISON, WI 53718-6751 PHONE: (608) 224-2830	FIGURE 3
	DRAWN BY:	04/05/2021	MRH		
	APPROVED BY:	07/07/2021	REL, 7/9/21		
	BLACKHAWK JUNCTION REDEVELOPMENT 700 EAST BLACKHAWK AVENUE PRAIRIE DU CHIEN, WISCONSIN				
	GROUNDWATER RESULTS AND PROPOSED MONITORING WELLS				

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LEGEND	
	SOIL BORING (BAY WEST, 2020)
	SOIL BORING (AYRES, 2009/2010)
	MONITORING WELL (BAY WEST, 2020)
	ABANDONED MONITORING WELL (ADVENT, 1991)
	SITE BOUNDARY
	FORMER DRY CLEANERS BUILDING (APPROXIMATE)
	WATER TABLE ELEVATION MEASURED ON JUNE 23, 2021
	WATER TABLE CONTOUR
	APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES:	
1.	SEE FIGURE 2 FOR BASE MAP NOTES AND LEGEND ITEMS.
2.	WATER TABLE ELEVATIONS CALCULATED USING SCS ENGINEERS DEPTH TO WATER MEASUREMENTS AND MONITORING WELL SURVEY INFORMATION FROM BAY WEST'S MAY 2021 LIMITED SITE INVESTIGATION REPORT.
3.	ELEVATIONS ARE BASED ON ARBITRARY SITE DATUM OF 100 FEET ESTABLISHED BY BAY WEST.

CLIENT PRAIRIE DU CHIEN REDEVELOPMENT AUTHORITY	PROJECT NO.	25221094.00	KP/MT	ENGINEER
	DRAWN:	06/29/2021	REL	REL 06/29/2021
	REVISED:	06/29/2021	REL	REL 06/29/2021
SITE BLACKHAWK JUNCTION REDEVELOPMENT 700 EAST BLACKHAWK AVENUE PRAIRIE DU CHIEN, WISCONSIN		WATER TABLE MAP - JUNE 23, 2021		
		SCS ENGINEERS 2830 DAIRY DRIVE, MADISON, WI 53718-6751 PHONE: (608) 224-2830		
		FIGURE 4		

Attachment A
Laboratory Report

June 30, 2021

Rob Langdon
SCS ENGINEERS
2830 Dairy Drive
Madison, WI 53718

RE: Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Dear Rob Langdon:

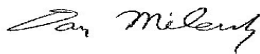
Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40228986001	MW-01	Water	06/23/21 10:50	06/24/21 09:20
40228986002	MW-02	Water	06/23/21 12:00	06/24/21 09:20
40228986003	MW-03	Water	06/23/21 12:30	06/24/21 09:20
40228986004	MW-04	Water	06/23/21 12:55	06/24/21 09:20
40228986005	MW-04 DUP	Water	06/23/21 13:00	06/24/21 09:20
40228986006	MW-05	Water	06/23/21 11:30	06/24/21 09:20
40228986007	TRIP BLANK	Water	06/23/21 00:00	06/24/21 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40228986001	MW-01	EPA 8260	LAP	63	PASI-G
40228986002	MW-02	EPA 8260	LAP	63	PASI-G
40228986003	MW-03	EPA 8260	LAP	63	PASI-G
40228986004	MW-04	EPA 8260	LAP	63	PASI-G
40228986005	MW-04 DUP	EPA 8260	LAP	63	PASI-G
40228986006	MW-05	EPA 8260	LAP	63	PASI-G
40228986007	TRIP BLANK	EPA 8260	LAP	63	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40228986001	MW-01					
EPA 8260	Tetrachloroethene	0.66J	ug/L	1.0	06/29/21 00:30	
40228986002	MW-02					
EPA 8260	Tetrachloroethene	9.0	ug/L	1.0	06/29/21 09:57	
40228986003	MW-03					
EPA 8260	Tetrachloroethene	42.6	ug/L	1.0	06/29/21 10:18	
40228986004	MW-04					
EPA 8260	Tetrachloroethene	196	ug/L	1.0	06/29/21 10:39	
EPA 8260	Trichloroethene	0.34J	ug/L	1.0	06/29/21 10:39	
40228986005	MW-04 DUP					
EPA 8260	Tetrachloroethene	202	ug/L	1.0	06/29/21 11:00	
40228986006	MW-05					
EPA 8260	Tetrachloroethene	2.5	ug/L	1.0	06/29/21 16:43	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-01 **Lab ID: 40228986001** Collected: 06/23/21 10:50 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/21 00:30	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 00:30	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 00:30	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 00:30	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 00:30	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 00:30	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 00:30	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 00:30	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 00:30	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 00:30	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 00:30	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 00:30	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 00:30	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 00:30	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 00:30	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 00:30	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 00:30	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 00:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 00:30	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 00:30	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 00:30	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 00:30	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 00:30	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 00:30	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 00:30	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 00:30	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 00:30	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 00:30	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 00:30	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 00:30	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 00:30	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 00:30	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 00:30	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 00:30	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 00:30	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 00:30	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 00:30	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 00:30	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 00:30	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 00:30	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 00:30	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 00:30	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 00:30	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 00:30	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 00:30	100-42-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-01 **Lab ID: 40228986001** Collected: 06/23/21 10:50 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 00:30	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 00:30	79-34-5	
Tetrachloroethene	0.66J	ug/L	1.0	0.41	1		06/29/21 00:30	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 00:30	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 00:30	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 00:30	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 00:30	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 00:30	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/21 00:30	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 00:30	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 00:30	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 00:30	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 00:30	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 00:30	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/29/21 00:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/29/21 00:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/29/21 00:30	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		06/29/21 00:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-02 Lab ID: 40228986002 Collected: 06/23/21 12:00 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/21 09:57	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 09:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 09:57	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 09:57	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 09:57	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 09:57	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 09:57	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 09:57	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 09:57	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 09:57	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 09:57	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 09:57	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 09:57	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 09:57	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 09:57	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 09:57	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 09:57	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 09:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 09:57	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 09:57	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 09:57	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 09:57	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 09:57	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 09:57	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 09:57	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 09:57	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 09:57	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 09:57	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 09:57	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 09:57	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 09:57	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 09:57	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 09:57	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 09:57	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 09:57	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 09:57	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 09:57	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 09:57	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 09:57	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 09:57	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 09:57	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 09:57	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 09:57	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 09:57	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 09:57	100-42-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-02 **Lab ID: 40228986002** Collected: 06/23/21 12:00 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 09:57	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 09:57	79-34-5	
Tetrachloroethene	9.0	ug/L	1.0	0.41	1		06/29/21 09:57	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 09:57	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 09:57	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 09:57	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 09:57	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 09:57	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/21 09:57	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 09:57	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 09:57	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 09:57	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 09:57	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 09:57	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/29/21 09:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		06/29/21 09:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		06/29/21 09:57	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		06/29/21 09:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-03 **Lab ID: 40228986003** Collected: 06/23/21 12:30 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/21 10:18	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 10:18	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 10:18	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 10:18	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 10:18	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 10:18	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 10:18	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 10:18	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 10:18	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 10:18	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 10:18	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 10:18	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 10:18	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 10:18	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 10:18	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 10:18	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 10:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 10:18	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 10:18	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 10:18	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 10:18	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 10:18	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 10:18	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 10:18	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 10:18	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 10:18	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 10:18	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 10:18	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 10:18	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 10:18	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 10:18	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 10:18	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:18	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 10:18	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 10:18	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 10:18	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 10:18	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 10:18	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 10:18	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 10:18	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 10:18	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 10:18	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 10:18	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:18	100-42-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-03 **Lab ID: 40228986003** Collected: 06/23/21 12:30 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 10:18	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 10:18	79-34-5	
Tetrachloroethene	42.6	ug/L	1.0	0.41	1		06/29/21 10:18	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 10:18	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 10:18	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 10:18	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 10:18	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 10:18	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/21 10:18	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 10:18	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 10:18	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 10:18	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:18	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 10:18	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/29/21 10:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/29/21 10:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		06/29/21 10:18	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		06/29/21 10:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Sample: MW-04 **Lab ID: 40228986004** Collected: 06/23/21 12:55 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/21 10:39	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:39	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 10:39	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 10:39	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 10:39	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 10:39	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 10:39	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 10:39	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 10:39	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 10:39	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 10:39	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 10:39	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 10:39	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 10:39	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 10:39	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 10:39	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 10:39	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 10:39	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 10:39	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 10:39	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 10:39	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 10:39	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 10:39	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 10:39	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 10:39	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 10:39	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 10:39	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 10:39	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 10:39	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 10:39	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 10:39	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 10:39	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 10:39	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:39	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 10:39	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 10:39	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 10:39	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 10:39	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 10:39	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 10:39	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 10:39	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 10:39	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 10:39	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 10:39	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:39	100-42-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-04 **Lab ID: 40228986004** Collected: 06/23/21 12:55 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 10:39	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 10:39	79-34-5	
Tetrachloroethene	196	ug/L	1.0	0.41	1		06/29/21 10:39	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 10:39	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 10:39	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 10:39	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 10:39	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 10:39	79-00-5	
Trichloroethene	0.34J	ug/L	1.0	0.32	1		06/29/21 10:39	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 10:39	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 10:39	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 10:39	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 10:39	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 10:39	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/29/21 10:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/29/21 10:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/29/21 10:39	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/29/21 10:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-04 DUP Lab ID: 40228986005 Collected: 06/23/21 13:00 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/21 11:00	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 11:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 11:00	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 11:00	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 11:00	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 11:00	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 11:00	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 11:00	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 11:00	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 11:00	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 11:00	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 11:00	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 11:00	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 11:00	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 11:00	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 11:00	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 11:00	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 11:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 11:00	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 11:00	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 11:00	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 11:00	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 11:00	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 11:00	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 11:00	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 11:00	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 11:00	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 11:00	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 11:00	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 11:00	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 11:00	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 11:00	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 11:00	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 11:00	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 11:00	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 11:00	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 11:00	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 11:00	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 11:00	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 11:00	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 11:00	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 11:00	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 11:00	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 11:00	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 11:00	100-42-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Sample: MW-04 DUP **Lab ID: 40228986005** Collected: 06/23/21 13:00 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 11:00	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 11:00	79-34-5	
Tetrachloroethene	202	ug/L	1.0	0.41	1		06/29/21 11:00	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 11:00	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 11:00	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 11:00	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 11:00	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 11:00	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/21 11:00	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 11:00	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 11:00	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 11:00	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 11:00	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 11:00	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/29/21 11:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	75	%	70-130		1		06/29/21 11:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/29/21 11:00	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/29/21 11:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-05 **Lab ID: 40228986006** Collected: 06/23/21 11:30 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/29/21 16:43	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 16:43	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/29/21 16:43	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 16:43	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/29/21 16:43	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/29/21 16:43	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 16:43	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/21 16:43	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/29/21 16:43	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/29/21 16:43	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/29/21 16:43	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/29/21 16:43	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/29/21 16:43	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/29/21 16:43	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 16:43	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/29/21 16:43	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/29/21 16:43	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/29/21 16:43	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/29/21 16:43	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/29/21 16:43	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 16:43	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 16:43	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/29/21 16:43	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/29/21 16:43	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 16:43	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/29/21 16:43	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/29/21 16:43	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/29/21 16:43	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/29/21 16:43	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/29/21 16:43	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/29/21 16:43	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/29/21 16:43	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/29/21 16:43	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/29/21 16:43	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/29/21 16:43	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 16:43	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/29/21 16:43	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/29/21 16:43	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/29/21 16:43	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/29/21 16:43	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/29/21 16:43	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/29/21 16:43	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/29/21 16:43	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/29/21 16:43	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/29/21 16:43	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: MW-05 **Lab ID: 40228986006** Collected: 06/23/21 11:30 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/29/21 16:43	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/29/21 16:43	79-34-5	
Tetrachloroethene	2.5	ug/L	1.0	0.41	1		06/29/21 16:43	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/29/21 16:43	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/29/21 16:43	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/29/21 16:43	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/29/21 16:43	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/29/21 16:43	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/29/21 16:43	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/29/21 16:43	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/29/21 16:43	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/29/21 16:43	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/29/21 16:43	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/29/21 16:43	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/29/21 16:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/29/21 16:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/29/21 16:43	2199-69-1	
Toluene-d8 (S)	95	%	70-130		1		06/29/21 16:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: TRIP BLANK **Lab ID: 40228986007** Collected: 06/23/21 00:00 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		06/28/21 20:42	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/28/21 20:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/28/21 20:42	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/28/21 20:42	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/28/21 20:42	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/28/21 20:42	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/28/21 20:42	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/28/21 20:42	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/28/21 20:42	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/28/21 20:42	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/28/21 20:42	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/28/21 20:42	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/28/21 20:42	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/28/21 20:42	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/28/21 20:42	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/28/21 20:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/28/21 20:42	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/28/21 20:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/28/21 20:42	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/28/21 20:42	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/28/21 20:42	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/28/21 20:42	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/28/21 20:42	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/28/21 20:42	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/28/21 20:42	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/28/21 20:42	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/28/21 20:42	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/28/21 20:42	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/28/21 20:42	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/28/21 20:42	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/28/21 20:42	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/28/21 20:42	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/28/21 20:42	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/28/21 20:42	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/28/21 20:42	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/28/21 20:42	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/28/21 20:42	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/28/21 20:42	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/28/21 20:42	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/28/21 20:42	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/28/21 20:42	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/28/21 20:42	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/28/21 20:42	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/28/21 20:42	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		06/28/21 20:42	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Sample: TRIP BLANK **Lab ID: 40228986007** Collected: 06/23/21 00:00 Received: 06/24/21 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		06/28/21 20:42	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/28/21 20:42	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/28/21 20:42	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/28/21 20:42	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/28/21 20:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/28/21 20:42	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/28/21 20:42	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/28/21 20:42	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/28/21 20:42	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/28/21 20:42	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/28/21 20:42	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/28/21 20:42	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/28/21 20:42	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/28/21 20:42	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		06/28/21 20:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		06/28/21 20:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		06/28/21 20:42	2199-69-1	
Toluene-d8 (S)	91	%	70-130		1		06/28/21 20:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

QC Batch: 388971 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40228986001, 40228986007

METHOD BLANK: 2243947 Matrix: Water

Associated Lab Samples: 40228986001, 40228986007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/28/21 16:54	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/28/21 16:54	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/28/21 16:54	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/28/21 16:54	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/28/21 16:54	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/28/21 16:54	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/28/21 16:54	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/28/21 16:54	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	06/28/21 16:54	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/28/21 16:54	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/28/21 16:54	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/28/21 16:54	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/28/21 16:54	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/28/21 16:54	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/28/21 16:54	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/28/21 16:54	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/28/21 16:54	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/28/21 16:54	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/28/21 16:54	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/28/21 16:54	
2,2-Dichloropropane	ug/L	<4.2	5.0	06/28/21 16:54	
2-Chlorotoluene	ug/L	<0.89	5.0	06/28/21 16:54	
4-Chlorotoluene	ug/L	<0.89	5.0	06/28/21 16:54	
Benzene	ug/L	<0.30	1.0	06/28/21 16:54	
Bromobenzene	ug/L	<0.36	1.0	06/28/21 16:54	
Bromochloromethane	ug/L	<0.36	5.0	06/28/21 16:54	
Bromodichloromethane	ug/L	<0.42	1.0	06/28/21 16:54	
Bromoform	ug/L	<3.8	5.0	06/28/21 16:54	
Bromomethane	ug/L	<1.2	5.0	06/28/21 16:54	
Carbon tetrachloride	ug/L	<0.37	1.0	06/28/21 16:54	
Chlorobenzene	ug/L	<0.86	1.0	06/28/21 16:54	
Chloroethane	ug/L	<1.4	5.0	06/28/21 16:54	
Chloroform	ug/L	<1.2	5.0	06/28/21 16:54	
Chloromethane	ug/L	<1.6	5.0	06/28/21 16:54	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/28/21 16:54	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	06/28/21 16:54	
Dibromochloromethane	ug/L	<2.6	5.0	06/28/21 16:54	
Dibromomethane	ug/L	<0.99	5.0	06/28/21 16:54	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/28/21 16:54	
Diisopropyl ether	ug/L	<1.1	5.0	06/28/21 16:54	

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

METHOD BLANK: 2243947

Matrix: Water

Associated Lab Samples: 40228986001, 40228986007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/28/21 16:54	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/28/21 16:54	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/28/21 16:54	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/28/21 16:54	
Methylene Chloride	ug/L	<0.32	5.0	06/28/21 16:54	
n-Butylbenzene	ug/L	<0.86	1.0	06/28/21 16:54	
n-Propylbenzene	ug/L	<0.35	1.0	06/28/21 16:54	
Naphthalene	ug/L	<1.1	5.0	06/28/21 16:54	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/28/21 16:54	
sec-Butylbenzene	ug/L	<0.42	1.0	06/28/21 16:54	
Styrene	ug/L	<0.36	1.0	06/28/21 16:54	
tert-Butylbenzene	ug/L	<0.59	1.0	06/28/21 16:54	
Tetrachloroethene	ug/L	<0.41	1.0	06/28/21 16:54	
Toluene	ug/L	<0.29	1.0	06/28/21 16:54	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/28/21 16:54	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/28/21 16:54	
Trichloroethene	ug/L	<0.32	1.0	06/28/21 16:54	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/28/21 16:54	
Vinyl chloride	ug/L	<0.17	1.0	06/28/21 16:54	
Xylene (Total)	ug/L	<1.0	3.0	06/28/21 16:54	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	06/28/21 16:54	
4-Bromofluorobenzene (S)	%	103	70-130	06/28/21 16:54	
Toluene-d8 (S)	%	92	70-130	06/28/21 16:54	

LABORATORY CONTROL SAMPLE: 2243948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	63.2	126	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	47.6	95	66-130	
1,1,2-Trichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethane	ug/L	50	57.4	115	68-132	
1,1-Dichloroethene	ug/L	50	46.9	94	85-126	
1,2,4-Trichlorobenzene	ug/L	50	44.2	88	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.6	99	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	45.2	90	70-130	
1,2-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,2-Dichloroethane	ug/L	50	54.1	108	70-130	
1,2-Dichloropropane	ug/L	50	53.8	108	78-125	
1,3-Dichlorobenzene	ug/L	50	54.6	109	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
Benzene	ug/L	50	55.7	111	70-132	
Bromodichloromethane	ug/L	50	60.3	121	70-130	
Bromoform	ug/L	50	50.8	102	65-130	
Bromomethane	ug/L	50	31.8	64	44-128	

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

LABORATORY CONTROL SAMPLE: 2243948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	64.3	129	70-130	
Chlorobenzene	ug/L	50	55.1	110	70-130	
Chloroethane	ug/L	50	46.7	93	73-137	
Chloroform	ug/L	50	59.1	118	80-122	
Chloromethane	ug/L	50	41.6	83	27-148	
cis-1,2-Dichloroethene	ug/L	50	60.3	121	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Dibromochloromethane	ug/L	50	49.0	98	70-130	
Dichlorodifluoromethane	ug/L	50	25.0	50	22-151	
Ethylbenzene	ug/L	50	54.5	109	80-123	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	70-130	
Methyl-tert-butyl ether	ug/L	50	51.2	102	66-130	
Methylene Chloride	ug/L	50	64.5	129	70-130	
Styrene	ug/L	50	56.9	114	70-130	
Tetrachloroethene	ug/L	50	51.6	103	70-130	
Toluene	ug/L	50	55.9	112	80-121	
trans-1,2-Dichloroethene	ug/L	50	58.1	116	70-130	
trans-1,3-Dichloropropene	ug/L	50	40.8	82	58-125	
Trichloroethene	ug/L	50	57.3	115	70-130	
Trichlorofluoromethane	ug/L	50	47.5	95	84-148	
Vinyl chloride	ug/L	50	43.6	87	63-142	
Xylene (Total)	ug/L	150	160	107	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2245329 2245330

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40228972027	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	63.5	50	50	122	121	116	115	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	53.0	50.0	106	100	66-130	6	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	49.7	48.5	99	97	70-130	2	20		
1,1-Dichloroethane	ug/L	44.7	50	50	97.7	99.4	106	110	68-132	2	20		
1,1-Dichloroethene	ug/L	1.9	50	50	44.8	46.3	86	89	76-132	3	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.7	45.1	89	90	70-130	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	52.8	52.6	106	105	51-126	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	47.2	45.7	94	91	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	51.6	51.2	103	102	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	52.2	52.8	104	106	70-130	1	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	50.6	51.4	101	103	77-125	1	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	55.7	54.2	111	108	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	52.6	51.5	105	103	70-130	2	20		
Benzene	ug/L	<0.30	50	50	52.4	54.3	105	109	70-132	3	20		

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2245329		2245330		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40228972027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Bromodichloromethane	ug/L	<0.42	50	50	56.5	57.7	113	115	70-130	2	20		
Bromoform	ug/L	<3.8	50	50	51.4	50.5	103	101	65-130	2	20		
Bromomethane	ug/L	<1.2	50	50	36.4	38.8	73	78	44-128	7	21		
Carbon tetrachloride	ug/L	<0.37	50	50	60.9	58.7	122	117	70-132	4	20		
Chlorobenzene	ug/L	<0.86	50	50	52.6	53.4	105	107	70-130	2	20		
Chloroethane	ug/L	6.8	50	50	48.7	50.7	84	88	70-137	4	20		
Chloroform	ug/L	1.7J	50	50	60.1	59.5	117	116	80-122	1	20		
Chloromethane	ug/L	<1.6	50	50	39.2	40.6	78	81	17-149	4	20		
cis-1,2-Dichloroethene	ug/L	1.6	50	50	60.1	59.1	117	115	70-130	2	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	52.0	51.5	104	103	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	47.9	48.9	96	98	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	24.2	23.6	48	47	22-158	3	20		
Ethylbenzene	ug/L	<0.33	50	50	52.0	53.0	104	106	80-123	2	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.3	53.8	107	108	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	53.7	50.7	107	101	66-130	6	20		
Methylene Chloride	ug/L	<0.32	50	50	55.7	59.1	111	118	70-130	6	20		
Styrene	ug/L	<0.36	50	50	54.9	56.1	110	112	70-130	2	20		
Tetrachloroethene	ug/L	<0.41	50	50	49.4	49.9	98	99	70-130	1	20		
Toluene	ug/L	<0.29	50	50	53.6	53.8	107	108	80-121	0	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	56.5	54.2	112	108	70-134	4	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	41.6	41.0	83	82	58-130	2	20		
Trichloroethene	ug/L	46.3	50	50	105	105	116	116	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	44.6	46.0	89	92	82-151	3	20		
Vinyl chloride	ug/L	2.3	50	50	42.8	44.2	81	84	61-143	3	20		
Xylene (Total)	ug/L	<1.0	150	150	152	156	102	104	70-130	2	20		
1,2-Dichlorobenzene-d4 (S)	%						98	99	70-130				
4-Bromofluorobenzene (S)	%						103	100	70-130				
Toluene-d8 (S)	%						97	103	70-130				

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

QC Batch: 389250 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40228986002, 40228986003, 40228986004, 40228986005, 40228986006

METHOD BLANK: 2245274 Matrix: Water
Associated Lab Samples: 40228986002, 40228986003, 40228986004, 40228986005, 40228986006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/29/21 07:53	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/29/21 07:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/29/21 07:53	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/29/21 07:53	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/29/21 07:53	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/29/21 07:53	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/29/21 07:53	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/29/21 07:53	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	06/29/21 07:53	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/29/21 07:53	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/29/21 07:53	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/29/21 07:53	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/29/21 07:53	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/29/21 07:53	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/29/21 07:53	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/29/21 07:53	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/29/21 07:53	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/29/21 07:53	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/29/21 07:53	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/29/21 07:53	
2,2-Dichloropropane	ug/L	<4.2	5.0	06/29/21 07:53	
2-Chlorotoluene	ug/L	<0.89	5.0	06/29/21 07:53	
4-Chlorotoluene	ug/L	<0.89	5.0	06/29/21 07:53	
Benzene	ug/L	<0.30	1.0	06/29/21 07:53	
Bromobenzene	ug/L	<0.36	1.0	06/29/21 07:53	
Bromochloromethane	ug/L	<0.36	5.0	06/29/21 07:53	
Bromodichloromethane	ug/L	<0.42	1.0	06/29/21 07:53	
Bromoform	ug/L	<3.8	5.0	06/29/21 07:53	
Bromomethane	ug/L	<1.2	5.0	06/29/21 07:53	
Carbon tetrachloride	ug/L	<0.37	1.0	06/29/21 07:53	
Chlorobenzene	ug/L	<0.86	1.0	06/29/21 07:53	
Chloroethane	ug/L	<1.4	5.0	06/29/21 07:53	
Chloroform	ug/L	<1.2	5.0	06/29/21 07:53	
Chloromethane	ug/L	<1.6	5.0	06/29/21 07:53	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/29/21 07:53	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	06/29/21 07:53	
Dibromochloromethane	ug/L	<2.6	5.0	06/29/21 07:53	
Dibromomethane	ug/L	<0.99	5.0	06/29/21 07:53	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/29/21 07:53	
Diisopropyl ether	ug/L	<1.1	5.0	06/29/21 07:53	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

METHOD BLANK: 2245274 Matrix: Water
Associated Lab Samples: 40228986002, 40228986003, 40228986004, 40228986005, 40228986006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/29/21 07:53	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/29/21 07:53	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/29/21 07:53	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/29/21 07:53	
Methylene Chloride	ug/L	<0.32	5.0	06/29/21 07:53	
n-Butylbenzene	ug/L	<0.86	1.0	06/29/21 07:53	
n-Propylbenzene	ug/L	<0.35	1.0	06/29/21 07:53	
Naphthalene	ug/L	<1.1	5.0	06/29/21 07:53	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/29/21 07:53	
sec-Butylbenzene	ug/L	<0.42	1.0	06/29/21 07:53	
Styrene	ug/L	<0.36	1.0	06/29/21 07:53	
tert-Butylbenzene	ug/L	<0.59	1.0	06/29/21 07:53	
Tetrachloroethene	ug/L	<0.41	1.0	06/29/21 07:53	
Toluene	ug/L	<0.29	1.0	06/29/21 07:53	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/29/21 07:53	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/29/21 07:53	
Trichloroethene	ug/L	<0.32	1.0	06/29/21 07:53	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/29/21 07:53	
Vinyl chloride	ug/L	<0.17	1.0	06/29/21 07:53	
Xylene (Total)	ug/L	<1.0	3.0	06/29/21 07:53	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	06/29/21 07:53	
4-Bromofluorobenzene (S)	%	100	70-130	06/29/21 07:53	
Toluene-d8 (S)	%	100	70-130	06/29/21 07:53	

LABORATORY CONTROL SAMPLE: 2245275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	61.9	124	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	53.5	107	66-130	
1,1,2-Trichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethane	ug/L	50	60.2	120	68-132	
1,1-Dichloroethene	ug/L	50	48.4	97	85-126	
1,2,4-Trichlorobenzene	ug/L	50	46.3	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.2	98	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	46.7	93	70-130	
1,2-Dichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dichloroethane	ug/L	50	53.7	107	70-130	
1,2-Dichloropropane	ug/L	50	52.5	105	78-125	
1,3-Dichlorobenzene	ug/L	50	55.5	111	70-130	
1,4-Dichlorobenzene	ug/L	50	53.9	108	70-130	
Benzene	ug/L	50	54.3	109	70-132	
Bromodichloromethane	ug/L	50	59.1	118	70-130	
Bromoform	ug/L	50	50.4	101	65-130	
Bromomethane	ug/L	50	41.1	82	44-128	

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

LABORATORY CONTROL SAMPLE: 2245275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	65.6	131	70-130	L1
Chlorobenzene	ug/L	50	53.2	106	70-130	
Chloroethane	ug/L	50	48.8	98	73-137	
Chloroform	ug/L	50	60.3	121	80-122	
Chloromethane	ug/L	50	51.3	103	27-148	
cis-1,2-Dichloroethene	ug/L	50	60.3	121	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.7	109	70-130	
Dibromochloromethane	ug/L	50	47.4	95	70-130	
Dichlorodifluoromethane	ug/L	50	44.5	89	22-151	
Ethylbenzene	ug/L	50	52.0	104	80-123	
Isopropylbenzene (Cumene)	ug/L	50	55.2	110	70-130	
Methyl-tert-butyl ether	ug/L	50	51.9	104	66-130	
Methylene Chloride	ug/L	50	62.5	125	70-130	
Styrene	ug/L	50	56.1	112	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	53.5	107	80-121	
trans-1,2-Dichloroethene	ug/L	50	58.1	116	70-130	
trans-1,3-Dichloropropene	ug/L	50	40.8	82	58-125	
Trichloroethene	ug/L	50	58.2	116	70-130	
Trichlorofluoromethane	ug/L	50	50.6	101	84-148	
Vinyl chloride	ug/L	50	50.1	100	63-142	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2245647 2245648

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40228972026	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	240	250	250	499	522	104	113	70-130	5	20		
1,1,2,2-Tetrachloroethane	ug/L	<1.9	250	250	261	263	104	105	66-130	1	20		
1,1,2-Trichloroethane	ug/L	<1.7	250	250	247	235	99	94	70-130	5	20		
1,1-Dichloroethane	ug/L	28.8	250	250	304	313	110	114	68-132	3	20		
1,1-Dichloroethene	ug/L	5.9	250	250	211	227	82	88	76-132	7	20		
1,2,4-Trichlorobenzene	ug/L	<4.8	250	250	197	178	79	71	70-130	11	20		
1,2-Dibromo-3-chloropropane	ug/L	<11.8	250	250	213	262	85	105	51-126	21	20	R1	
1,2-Dibromoethane (EDB)	ug/L	<1.5	250	250	233	225	93	90	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<1.6	250	250	245	248	98	99	70-130	1	20		
1,2-Dichloroethane	ug/L	<1.5	250	250	275	281	110	112	70-130	2	20		
1,2-Dichloropropane	ug/L	<2.2	250	250	258	264	103	106	77-125	2	20		
1,3-Dichlorobenzene	ug/L	<1.8	250	250	255	264	102	105	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<4.5	250	250	251	255	100	102	70-130	1	20		
Benzene	ug/L	<1.5	250	250	263	270	105	108	70-132	3	20		

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QUALITY CONTROL DATA

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2245647		2245648		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40228972026 Result	MS Spike Conc.	MSD Spike Conc.									
Bromodichloromethane	ug/L	<2.1	250	250	288	291	115	116	70-130	1	20		
Bromoform	ug/L	<19.0	250	250	247	237	99	95	65-130	4	20		
Bromomethane	ug/L	<6.0	250	250	160	175	64	70	44-128	9	21		
Carbon tetrachloride	ug/L	<1.8	250	250	290	303	116	121	70-132	4	20		
Chlorobenzene	ug/L	<4.3	250	250	262	266	105	106	70-130	1	20		
Chloroethane	ug/L	<6.9	250	250	203	222	81	89	70-137	9	20		
Chloroform	ug/L	<5.9	250	250	291	294	116	117	80-122	1	20		
Chloromethane	ug/L	<8.2	250	250	207	212	83	85	17-149	3	20		
cis-1,2-Dichloroethene	ug/L	<2.4	250	250	287	291	115	116	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<1.8	250	250	263	269	105	107	70-130	2	20		
Dibromochloromethane	ug/L	<13.2	250	250	242	231	97	92	70-130	5	20		
Dichlorodifluoromethane	ug/L	<2.3	250	250	165	181	66	72	22-158	9	20		
Ethylbenzene	ug/L	<1.6	250	250	271	271	108	108	80-123	0	20		
Isopropylbenzene (Cumene)	ug/L	<5.0	250	250	266	265	106	106	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<5.6	250	250	256	251	102	101	66-130	2	20		
Methylene Chloride	ug/L	<1.6	250	250	284	292	114	117	70-130	3	20		
Styrene	ug/L	<1.8	250	250	279	279	112	111	70-130	0	20		
Tetrachloroethene	ug/L	<2.0	250	250	241	240	96	96	70-130	0	20		
Toluene	ug/L	<1.4	250	250	270	270	108	108	80-121	0	20		
trans-1,2-Dichloroethene	ug/L	<2.6	250	250	272	266	109	106	70-134	2	20		
trans-1,3-Dichloropropene	ug/L	<17.3	250	250	218	207	87	83	58-130	5	20		
Trichloroethene	ug/L	11.3	250	250	287	284	110	109	70-130	1	20		
Trichlorofluoromethane	ug/L	<2.1	250	250	221	234	89	94	82-151	5	20		
Vinyl chloride	ug/L	<0.87	250	250	204	216	82	87	61-143	6	20		
Xylene (Total)	ug/L	<5.2	750	750	788	774	105	103	70-130	2	20		
1,2-Dichlorobenzene-d4 (S)	%						98	95	70-130				
4-Bromofluorobenzene (S)	%						101	104	70-130				
Toluene-d8 (S)	%						102	100	70-130				

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QUALIFIERS

Project: 25221094.00 BLACKHAWK JUNCTION

Pace Project No.: 40228986

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 25221094.00 BLACKHAWK JUNCTION
Pace Project No.: 40228986

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40228986001	MW-01	EPA 8260	388971		
40228986002	MW-02	EPA 8260	389250		
40228986003	MW-03	EPA 8260	389250		
40228986004	MW-04	EPA 8260	389250		
40228986005	MW-04 DUP	EPA 8260	389250		
40228986006	MW-05	EPA 8260	389250		
40228986007	TRIP BLANK	EPA 8260	388971		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: SCS Engineers

Project # 40228986

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):


Pace Lab #	Glass						Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)								
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU								WPFU	SP5T	ZPLC	GN				
001																																					2.5 / 5 / 10
002																																					2.5 / 5 / 10
003																																					2.5 / 5 / 10
004																																					2.5 / 5 / 10
005																																					2.5 / 5 / 10
006																																					2.5 / 5 / 10
007																																					2.5 / 5 / 10
008																																					2.5 / 5 / 10
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019																																					2.5 / 5 / 10
020																																					2.5 / 5 / 10

2333333333

6/24/21
ALS

Exceptions to preservation check VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: SCS Engineers

WO#: **40228986**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR-107 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 / Corr: 3

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents: Date: <u>6/24/12</u> / Initials: <u>ALW</u> Labeled By Initials: <u>EL</u>

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>no pg#, mail info, 6/24/12 ALW</u>
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: 8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>	
Trip Blank Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>465</u>	

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir