

October 25, 2022

Mr. Tauren Beggs
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue
Green Bay, WI 54313-6727

RE: NR 716.14 Data Transmittal – Soil and Groundwater Sampling Results
Jagemann Plating Company, 1324 S. 26th Street Manitowoc, WI; BRRTS #02-36-555544

Dear Mr. Beggs:

On behalf of Jagemann Plating Company, Robert E. Lee & Associates, Inc. (REL) is providing the Wisconsin Department of Natural Resources (WDNR) the enclosed soil and groundwater analytical results for sampling conducted during June 2002 at Jagemann Plating Company, 1324 South 26th Street, Manitowoc, Wisconsin (the Site). Soil samples were collected from three soil borings (B26 through B28), which were completed on June 2, 2022, within the Site building to further define the extent of soil contamination. Select soil samples were laboratory analyzed for volatile organic compounds (VOCs), RCRA metals, and perfluoroalkyl and polyfluoroalkyl substances (PFAS).

After soil sampling was complete, the borings were converted to Temporary Wells TW26 through TW28, respectively, to further define the extent of groundwater contamination. The temporary wells were developed on June 6, 2022. On June 14, 2022, water level measurements were collected from Site wells and piezometers, using an electronic water level indicator. Between June 14 and 16, 2022, groundwater samples collected were from new Temporary Wells TW26 through TW28; existing Monitoring Wells MW-4, MW-5, MW-6, MW-7, MW-17, MW-18, and MW-19; Piezometers PZ-3, PZ-4, PZ-13, and PZ-16, along with the interior groundwater pit Sump (Sump 1). The groundwater samples were laboratory analyzed for a combination of VOCs, RCRA metals, and PFAS.

Additional groundwater samples were also collected by REL during this sampling event from Monitoring Wells MW-1, MW-14, and Temporary Well TW-20, as part of the ongoing groundwater remediation pilot study being performed at the Site by EnviroForensics, LLC. The groundwater samples were laboratory analyzed for VOCs, dissolved total chromium, and dissolved hexavalent chromium.

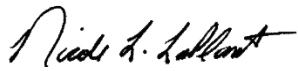
The vertical locations of the Temporary Wells TW20 through TW28 were surveyed during July 2022 to determine the ground surface and groundwater elevation.

The soil and groundwater samples were collected in accordance with WDNR guidance, the November 8, 2021, *Site Investigation Work Plan*, and the subsequent workplan submitted to the WDNR via electronic mail on May 24, 2022. The soil boring and monitoring well locations are shown in the two figures included in *Attachment A*. The groundwater analytical results are summarized in Tables A.1.a through A.1.c, soil analytical results are summarized in Tables A.2.a through A.2.c., and water level elevations are summarized in Table A.6 included in *Attachment B*. The soil laboratory analytical reports are included in *Attachment C*. Groundwater analytical reports are included in *Attachment D*.

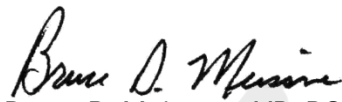
We trust this information meets your needs. If you have any questions, please feel free to contact REL at (920) 662-9641.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.



Nicole L. LaPlant
Project Manager/Geologist



Bruce D. Meissner, VP, PG
Environmental Compliance Manager

NLL/BDM/LAR

ENC.

CC/ENC: Mike Jagemann, Jagemann Plating Company



A

ATTACHMENT A

Tables

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-1										
			10/15/2010	6/15/2011	9/29/2011	7/31/2013	4/1/2014	12/30/2016	3/28/2019	6/20/2019	6/24/2021	6/16/2022	
VOCs (µg/L)													
1,1,1,2-Tetrachloroethane	70	7	< 18.4	< 9.2	< 18.4	<16.5	<3.3	<4.8	<2.7	<2.7	<3.6	<3.6	
1,1,1-Trichloroethane	200	40	< 18.0	< 9.0	< 18.0	<16.5	<3.3	<8.4	<2.4	<2.4	<3.0	<3.0	
1,1,2,2-Tetrachloroethane	0.2	0.02	< 4.0	< 2.0	< 4.0	<22.5	<4.5	<5.2	<2.8	<2.8	<3.8	<3.8	
1,1,2-Trichloroethane	5	0.5	< 8.4	< 4.2	< 8.4	<17	<3.4	<4.8	<5.5	<5.5	<3.4	<3.4	
1,1-Dichloroethane	850	85	< 15.0	< 7.5	< 15.0	<15	<3	<11	3.7 J	3.9J	3.5 J	4.9 J	
1,1-Dichloroethene	7	0.7	13.8 J	14.6	< 11.4	<20	25.9	<6.5	17.5	16.1	20.1	24.8	
1,1-Dichloropropene	NE	NE	< 15.0	< 7.5	< 15.0	---	---	---	<5.4	<5.4	< 4.1	<4.1	
1,2,3-Trichlorobenzene	NE	NE	< 14.8	< 7.4	< 14.8	<90	<18	<27	<6.3	<6.3	<10.2	<10.2	
1,2,3-Trichloropropane	60	12	< 19.8	< 9.9	< 19.8	---	---	---	<5.9	<5.9	<5.6	<5.6	
1,2,4-Trichlorobenzene	70	14	< 19.4	< 9.7	< 19.4	<49	<9.8	<17	<9.5	<9.5	<9.5	<9.5	
1,2,4-Trimethylbenzene	480*	96*	< 19.4	< 9.7	< 19.4	<110	<22	<16	<8.4	<8.4	<4.5	<4.5	
1,2-Dibromo-3-chloropropane	0.2	0.02	< 33.6	< 16.8	< 33.6	<44	<8.8	<14	<17.6	<17.6	<23.7	<23.7	
1,2-Dibromoethane (EDB)	0.05	0.005	< 11.2	< 5.6	< 11.2	<22	<4.4	<6.3	<8.3	<8.3	<3.1	<3.1	
1,2-Dichlorobenzene	600	60	< 16.6	< 8.3	< 16.6	<18	<3.6	<4.6	<7.1	<7.1	<3.3	<3.3	
1,2-Dichloroethane	5	0.5	< 7.2	< 3.6	< 7.2	<20.5	<4.1	<4.8	<2.8	<2.8	<2.9	<2.9	
1,2-Dichloropropane	5	0.5	< 9.8	< 4.9	< 9.8	<16	<3.2	<4.3	<2.8	<2.8	<4.5	<4.5	
1,3,5-Trimethylbenzene	480*	96*	< 16.6	< 8.3	< 16.6	<70	<14	<15	<8.7	<8.7	<3.6	<3.6	
1,3-Dichlorobenzene	600	120	< 17.4	< 8.7	< 17.4	<14	<2.8	<5.2	<6.3	<6.3	<2.8	<3.5	
1,3-Dichloropropane	NE	NE	< 12.2	< 6.1	< 12.2	<16.5	<3.3	<4.2	<8.3	<8.3	<3.0	<3.0	
1,4-Dichlorobenzene	75	15	< 19.0	< 9.5	< 19.0	<15	<3	<4.9	<9.4	<9.4	<8.9	<8.9	
2,2-Dichloropropane	NE	NE	< 12.4	< 6.2	< 12.4	<18	<3.6	<3.1	<22.7	<22.7	<41.8	<41.8	
2-Chlorotoluene	NE	NE	< 17.0	< 8.5	< 17.0	<10.5	<2.1	<4	<9.3	<9.3	<8.9	<8.9	
4-Chlorotoluene	NE	NE	< 14.8	< 7.4	< 14.8	<10.5	<2.1	<6.3	<7.6	<7.6	<8.9	<8.9	
Benzene	5	0.5	< 8.2	< 4.1	< 8.2	<12	<2.4	<4.4	<2.5	<2.5	<3.0	<3.0	
Bromobenzene	NE	NE	< 16.4	< 8.2	< 16.4	<16	<3.2	<4.8	<2.4	<2.4	<3.6	<3.6	
Bromochloromethane	NE	NE	< 19.4	< 9.7	< 19.4	---	---	---	<3.6	<3.6	<3.6	<3.6	
Bromodichloromethane	0.6	0.06	< 11.2	< 5.6	< 11.2	<18.5	<3.7	<4.6	<3.6	<3.6	<4.2	<4.2	
Bromoform	4.4	0.44	< 18.8	< 9.4	< 18.8	<17.5	<3.5	<4.6	<39.7	<39.7	<38.0	<38.0	
Bromomethane	10	1	< 18.2	< 9.1	< 18.2	---	---	---	<9.7	<9.7	<11.9	<11.9	
Carbon Tetrachloride	5	0.5	< 9.8	< 4.9	< 9.8	<16.5	<3.3	<5.1	<1.7	<1.7	<3.7	<3.7	
Chlorobenzene	NE	NE	< 8.2	< 4.1	< 8.2	<12	<2.4	<4.6	<7.1	<7.1	<8.6	<8.6	
Chloroethane	400	80	< 19.4	< 9.7	< 19.4	<31.5	<6.3	<6.5	<13.4	<13.4	<13.8	<13.8	
Chloroform	6	0.6	< 26.0	< 13.0	< 26.0	<14	<2.8	<4.3	<12.7	<12.7	<11.8	<11.8	
Chloromethane	30	3	< 4.8	< 2.4	< 4.8	<40.5	<8.1	<19	<21.9	<21.9	<16.4	<16.4	
Dibromochloromethane	60	6	< 16.2	< 8.1	< 16.2	<11	<2.2	<4.5	<26.0	<26.0	<26.4	<26.4	
Dibromomethane	NE	NE	< 12.0	< 6.0	< 12.0	---	---	---	<9.4	<9.4	<9.9	<9.9	
Dichlorodifluoromethane	NE	NE	< 19.8	< 9.9	< 19.8	<22	<4.4	<8.7	<5.0	<5.0	<4.6	<4.6	
Diisopropyl ether	NE	NE	< 15.2	< 7.6	< 15.2	<11.5	<2.3	<4.4	<18.9	<18.9	<11.0	<11.0	
Ethylbenzene	700	140	< 10.8	< 5.4	< 10.8	<27.5	<5.5	<7.1	<2.2	<2.2	<3.3	<3.3	
Hexachloro-1,3-butadiene	NE	NE	< 13.4	< 6.7	< 13.4	<75	<15	<22	<11.8	<11.8	<27.4	<27.4	
Isopropylbenzene	NE	NE	< 11.8	< 5.9	< 11.8	<15	<3	<8.2	<3.9	<3.9	<10.0	<10.0	
Methyl-tert-butyl ether (MTBE)	60	12	< 12.2	< 6.1	< 12.2	<11.5	<2.3	<11	<12.5	<12.5	<11.3	<11.3	
Methylene Chloride	5	0.5	< 8.6	< 4.3	< 8.6	<25	<5	<13	<5.8	<5.8	<3.2	<3.2	
Naphthalene	100	10	< 17.8	< 8.9	< 17.8	<85	<17	<16	<11.8	<11.8	<11.3	<11.3	
Styrene	100	10	< 17.2	< 8.6	< 17.2	---	---	---	<4.7	<4.7	<3.6	<3.6	
Tetrachloroethene	5	0.5	< 9.0	< 4.5	< 9.0	<16.5	<3.3	<4.9	<3.3	<3.3	<4.1	<4.1	
Toluene	800	160	< 13.4	< 6.7	< 13.4	<34.5	<6.9	<4.4	<1.7	<1.7	<2.9	<2.9	
Trichloroethene	5	0.5	1,930	1,600	1,440	540	1,330	390	703	895	946	902	
Trichlorofluoromethane	3490	698	< 15.8	< 7.9	< 15.8	<35.5	<7.1	<8.7	<2.1	<2.1	<4.2	<4.2	
Vinyl chloride	0.2	0.02	599	444	169	230	730	125	430	410	697	750	
cis-1,2-Dichloroethene	70	7	554	425	206	200	490	148	252	316	400	442	
cis-1,3-Dichloropropene	0.4	0.04	< 4.0	< 2.0	< 4.0	---	---	---	<36.3	<36.3	<3.6	<3.6	
Xylenes	2000	400	<52.6	< 26.3	< 52.6	<66	<13.2	<31	<7.3	<7.3	<10.9	<10.5	
n-Butylbenzene	NE	NE	<18.6	< 9.3	< 18.6	<17.5	<3.5	<10	<7.1	<7.1	<8.6	<8.6	
n-Propylbenzene	NE	NE	< 16.2	< 8.1	< 16.2	<12.5	<2.5	<7.7	<8.1	<8.1	<3.5	<3.5	
p-Isopropyltoluene	NE	NE	< 13.4	< 6.7	< 13.4	<15.5	<3.1	<11	<8.0	<8.0	<10.4	<10.4	
sec-Butylbenzene	NE	NE	< 17.8	< 8.9	< 17.8	<16.5	<3.3	<12	<8.5	<8.5	<4.2	<4.2	
tert-Butylbenzene	NE	NE	< 19.4	< 9.7	< 19.4	<18	<3.6	<11	<3.0	<3.0	<5.9	<5.9	
trans-1,2-Dichloroethene	100	20	28.6	22.9	< 17.8	17.5 J	39	9 J	23.6 J	24.6 J	33.5	41.6	
trans-1,3-Dichloropropene	0.4	0.04	< 3.8	< 1.9	< 3.8	---	---	---	<43.7	<43.7	<34.6	<34.6	

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140	NR 140	MW-2								
	ES	PAL	10/15/2010	6/15/2011	9/29/2011	7/31/2013	4/1/2014	12/30/2016	3/28/2019	6/20/2019	6/24/2021
VOCs (µg/L)											
1,1,1,2-Tetrachloroethane	70	7	< 0.92	< 0.92	< 0.92	<0.33	<0.33	<0.48	NS	<0.27	<0.36
1,1,1-Trichloroethane	200	40	< 0.90	< 0.90	< 0.90	<0.33	<0.33	<0.84	NS	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.20	< 0.20	< 0.20	<0.45	<0.45	<0.52	NS	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	< 0.42	< 0.42	< 0.42	<0.34	<0.34	<0.48	NS	<0.55	<0.34
1,1-Dichloroethane	850	85	< 0.75	< 0.75	< 0.75	<0.3	<0.3	<1.1	NS	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<u>6.9</u>	<u>9.9</u>	<u>5.1</u>	<u>1.7</u>	<u>2.28</u>	<0.65	NS	<u>2.6</u>	0.97 J
1,1-Dichloropropene	NE	NE	< 0.75	< 0.75	< 0.75	---	---	---	NS	<0.54	< 0.41
1,2,3-Trichlorobenzene	NE	NE	< 0.74	< 0.74	< 0.74	<1.8	<1.8	<2.7	NS	<0.63	<1.0
1,2,3-Trichloropropane	60	12	< 0.99	< 0.99	< 0.99	---	---	---	NS	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	< 0.97	< 0.97	< 0.97	<0.98	<0.98	<1.7	NS	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	< 0.97	< 0.97	< 0.97	<2.2	<2.2	<1.6	NS	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	< 1.7	< 1.7	< 1.7	<0.88	<0.88	<1.4	NS	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	< 0.56	< 0.56	< 0.56	<0.44	<0.44	<0.63	NS	<0.83	<0.31
1,2-Dichlorobenzene	600	60	< 0.83	< 0.83	< 0.83	<0.36	<0.36	<0.46	NS	<0.71	<0.33
1,2-Dichloroethane	5	0.5	< 0.36	< 0.36	< 0.36	<0.41	<0.41	<0.48	NS	<0.28	<0.29
1,2-Dichloropropane	5	0.5	< 0.49	< 0.49	< 0.49	<0.32	<0.32	<0.43	NS	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	< 0.83	< 0.83	< 0.83	<1.4	<1.4	<1.5	NS	<0.87	<0.36
1,3-Dichlorobenzene	600	120	< 0.87	< 0.87	< 0.87	<0.28	<0.28	<0.52	NS	<0.63	<0.35
1,3-Dichloropropane	NE	NE	< 0.61	< 0.61	< 0.61	<0.33	<0.33	<0.42	NS	<0.83	<0.30
1,4-Dichlorobenzene	75	15	< 0.95	< 0.95	< 0.95	<0.3	<0.3	<0.49	NS	<0.94	<0.89
2,2-Dichloropropane	NE	NE	< 0.62	< 0.62	< 0.62	<0.36	<0.36	<3.1	NS	<2.3	<4.2
2-Chlorotoluene	NE	NE	< 0.85	< 0.85	< 0.85	<0.21	<0.21	<0.4	NS	<0.93	<0.89
4-Chlorotoluene	NE	NE	< 0.74	< 0.74	< 0.74	<0.21	<0.21	<0.63	NS	<0.76	<0.89
Benzene	5	0.5	< 0.41	< 0.41	< 0.41	<0.24	<0.24	<0.44	NS	<0.25	<0.30
Bromobenzene	NE	NE	< 0.82	< 0.82	< 0.82	<0.32	<0.32	<0.48	NS	<0.24	<0.36
Bromochloromethane	NE	NE	< 0.97	< 0.97	< 0.97	---	---	---	NS	<0.36	<0.36
Bromodichloromethane	0.6	0.06	< 0.56	< 0.56	< 0.56	<0.37	<0.37	<0.46	NS	<0.36	<0.42
Bromoform	4.4	0.44	< 0.94	< 0.94	< 0.94	<0.35	<0.35	<0.46	NS	<4.0	<3.8
Bromomethane	10	1	< 0.91	< 0.91	< 0.91	---	---	---	NS	<0.97	<1.2
Carbon Tetrachloride	5	0.5	< 0.49	< 0.49	< 0.49	<0.33	<0.33	<0.51	NS	<0.17	<0.37
Chlorobenzene	NE	NE	< 0.41	< 0.41	< 0.41	<0.24	<0.24	<0.46	NS	<0.71	<0.86
Chloroethane	400	80	< 0.97	< 0.97	< 0.97	<0.63	<0.63	<0.65	NS	<1.3	<1.4
Chloroform	6	0.6	< 1.3	< 1.3	< 1.3	<0.28	<0.28	<0.43	NS	<1.3	<1.2
Chloromethane	30	3	< 0.24	< 0.24	< 0.24	<0.81	<0.81	<1.9	NS	<2.2	<u>9.8</u>
Dibromochloromethane	60	6	< 0.81	< 0.81	< 0.81	<0.22	<0.22	<0.45	NS	<2.6	<2.6
Dibromomethane	NE	NE	< 0.60	< 0.60	< 0.60	---	---	---	NS	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	10.5	17.2	21.0	13.2	13.5	1.53 J	NS	5.3	13.7
Diisopropyl ether	NE	NE	< 0.76	< 0.76	< 0.76	<0.23	<0.23	<0.44	NS	<1.9	<1.1
Ethylbenzene	700	140	< 0.54	< 0.54	< 0.54	<0.55	<0.55	<0.71	NS	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	< 0.67	< 0.67	< 0.67	<1.5	<1.5	<2.2	NS	<1.2	<2.7
Isopropylbenzene	NE	NE	< 0.59	< 0.59	< 0.59	<0.3	<0.3	<0.82	NS	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	< 0.61	< 0.61	< 0.61	<0.23	<0.23	<1.1	NS	<1.2	<1.1
Methylene Chloride	5	0.5	< 0.43	< 0.43	< 0.43	<0.5	<0.5	<1.3	NS	<0.58	<0.32
Naphthalene	100	10	< 0.89	< 0.89	< 0.89	<1.7	<1.7	<1.1	NS	<1.2	<1.1
Styrene	100	10	< 0.86	< 0.86	< 0.86	---	---	---	NS	<0.47	<0.36
Tetrachloroethene	5	0.5	< 0.45	< 0.45	< 0.45	<0.33	<0.33	<0.49	NS	<0.33	<0.41
Toluene	800	160	< 0.67	< 0.67	< 0.67	<0.69	<0.69	<0.44	NS	<0.17	<0.29
Trichloroethene	5	0.5	9	12.9	5.4	<u>0.67 J</u>	1	<u>1.33 J</u>	NS	<u>1.9</u>	<0.32
Trichlorofluoromethane	3490	698	< 0.79	< 0.79	< 0.79	<0.71	<0.71	<0.87	NS	<0.21	<0.42
Vinyl chloride	0.2	0.02	38.5	78.6	53.8	69	36	4.9	NS	15.4	34.5
cis-1,2-Dichloroethene	70	7	114	92	72.5	<u>42</u>	<u>30.9</u>	4.2	NS	<u>19.5</u>	<u>24.6</u>
cis-1,3-Dichloropropene	0.4	0.04	< 0.20	< 0.20	< 0.20	---	---	---	NS	<3.6	<0.36
Xylenes	2000	400	< 2.63	< 2.63	< 2.63	<1.32	<1.32	<3.1	NS	<0.73	<1.05
n-Butylbenzene	NE	NE	< 0.93	< 0.93	< 0.93	<0.35	<0.35	<1	NS	<0.71	<0.86
n-Propylbenzene	NE	NE	< 0.81	< 0.81	< 0.81	<0.25	<0.25	<0.77	NS	<0.81	<0.35
p-Isopropyltoluene	NE	NE	< 0.67	< 0.67	< 0.67	<0.31	<0.31	<1.1	NS	<0.80	<1.0
sec-Butylbenzene	NE	NE	< 0.89	< 0.89	< 0.89	<0.33	<0.33	<1.2	NS	<0.85	<0.42
tert-Butylbenzene	NE	NE	< 0.97	< 0.97	< 0.97	<0.36	<0.36	<1.1	NS	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	3.5	1.9	1.7	0.41 J	<0.35	<0.54	NS	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	< 0.19	< 0.19	< 0.19	---	---	---	NS	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-3								
			10/15/2010	6/15/2011	9/29/2011	7/31/2013	4/1/2014	12/30/2016	3/28/2019	6/20/2019	6/24/2021
VOCs (µg/L)											
1,1,1,2-Tetrachloroethane	70	7	< 3.7	< 0.92	< 1.8	<0.33	<0.33	<0.48	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	< 3.6	< 0.90	< 1.8	<0.33	<0.33	<0.84	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.80	< 0.20	< 0.40	<0.45	<0.45	<0.52	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	< 1.7	< 0.42	< 0.84	<0.34	<0.34	<0.48	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	< 3.0	< 0.75	< 1.5	<0.3	<0.3	<1.1	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	2.3 J	1.4	1.6 J	2.48	2.27	1.22 J	1.0	1.3	1.9
1,1-Dichloropropene	NE	NE	< 3.0	< 0.75	< 1.5	---	---	---	<0.54	<0.54	< 0.41
1,2,3-Trichlorobenzene	NE	NE	< 3.0	< 0.74	< 1.5	<1.8	<1.8	<2.7	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	< 4.0	< 0.99	< 2.0	---	---	---	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	< 3.9	< 0.97	< 1.9	<0.98	<0.98	<1.7	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	< 3.9	< 0.97	< 1.9	<2.2	<2.2	<1.6	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	< 6.7	< 1.7	< 3.4	<0.88	<0.88	<1.4	<1.8	<1.8	<0.31
1,2-Dibromoethane (EDB)	0.05	0.005	< 2.2	< 0.56	< 1.1	<0.44	<0.44	<0.63	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	< 3.3	< 0.83	< 1.7	<0.36	<0.36	<0.46	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	< 1.4	< 0.36	< 0.72	<0.41	<0.41	<0.48	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	< 2.0	< 0.49	< 0.98	<0.32	<0.32	<0.43	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	< 3.3	< 0.83	< 1.7	<1.4	<1.4	<1.5	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	< 3.5	< 0.87	< 1.7	<0.28	<0.28	<0.52	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	< 2.4	< 0.61	< 1.2	<0.33	<0.33	<0.42	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	< 3.8	< 0.95	< 1.9	<0.3	<0.3	<0.49	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	< 2.5	< 0.62	< 1.2	<0.36	<0.36	<3.1	<2.3	<2.3	<4.2
2-Chlorotoluene	NE	NE	< 3.4	< 0.85	< 1.7	<0.21	<0.21	<0.4	<0.93	<0.93	<0.89
4-Chlorotoluene	NE	NE	< 3.0	< 0.74	< 1.5	<0.21	<0.21	<0.63	<0.76	<0.76	<0.89
Benzene	5	0.5	< 1.6	< 0.41	< 0.82	<0.24	<0.24	<0.44	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	< 3.3	< 0.82	< 1.6	<0.32	<0.32	<0.48	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	< 3.9	< 0.97	< 1.9	---	---	---	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	< 2.2	< 0.56	< 1.1	<0.37	<0.37	<0.46	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	< 3.8	< 0.94	< 1.9	<0.35	<0.35	<0.46	<4.0	<4.0	<3.8
Bromomethane	10	1	< 3.6	< 0.91	< 1.8	---	---	---	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	< 2.0	< 0.49	< 0.98	<0.33	<0.33	<0.51	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	< 1.6	< 0.41	< 0.82	<0.24	<0.24	<0.46	<0.71	<0.71	<0.86
Chloroethane	400	80	< 3.9	< 0.97	< 1.9	<0.63	<0.63	<1.3	<1.3	<1.3	<1.4
Chloroform	6	0.6	< 5.2	< 1.3	< 2.6	<0.28	<0.28	<0.43	<1.3	<1.3	<1.2
Chloromethane	30	3	< 9.6	< 0.24	< 0.48	<0.81	<0.81	<1.9	<2.2	<2.2	<0.37
Dibromochloromethane	60	6	< 3.2	< 0.81	< 1.6	<0.22	<0.22	<0.45	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	< 2.4	< 0.60	< 1.2	---	---	---	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	8.5	8.6	14.9	10.7	14.2	9.9	5.3	5.8	7.0
Diisopropyl ether	NE	NE	< 3.0	< 0.76	< 1.5	<0.23	<0.23	<0.44	<1.9	<1.9	<1.1
Ethylbenzene	700	140	< 2.2	< 0.54	< 1.1	<0.55	<0.55	<0.71	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	< 2.7	< 0.67	< 1.3	<1.5	<1.5	<2.2	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	< 2.4	< 0.59	< 1.2	<0.3	<0.3	<0.82	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	< 2.4	< 0.61	< 1.2	<0.23	<0.23	<1.1	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	< 1.7	< 0.43	< 0.86	<0.5	<0.5	<1.3	<0.58	<0.58	<0.32
Naphthalene	100	10	< 3.6	< 0.89	< 1.8	<1.7	<1.7	<1.6	<1.2	<1.2	<1.1
Styrene	100	10	< 3.4	< 0.86	< 1.7	---	---	---	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	< 1.8	< 0.45	< 0.90	<0.33	<0.33	<0.49	0.52 J	0.50 J	0.46 J
Toluene	800	160	< 2.7	< 0.67	< 1.3	<0.98	<0.69	<0.44	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	66.9	59.2	97.1	38	60	75	36.9	56.1	67.3
Trichlorofluoromethane	3490	698	< 3.2	< 0.79	< 1.6	<0.71	<0.71	<0.87	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	42.1	12.9	13.4	44	21.5	3.5	0.49 J	1.6	3.6
cis-1,2-Dichloroethene	70	7	256	121	125	128	139	73	49	53.8	54.7
cis-1,3-Dichloropropene	0.4	0.04	< 0.80	< 0.20	< 0.40	---	---	---	<3.6	<3.6	<0.36
Xylenes	2000	400	< 10.5	< 2.63	< 5.3	<1.32	<1.32	<3.1	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	< 3.7	< 0.81	< 1.9	<0.35	<0.35	<1	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	< 3.2	< 0.83	< 1.6	<0.25	<0.25	<0.77	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	< 2.7	< 0.67	< 1.3	<0.31	<0.31	<1.1	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	< 3.6	< 0.89	< 1.8	<0.33	<0.33	<1.2	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	< 3.9	< 0.97	< 1.9	<0.36	<0.36	<1.1	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	15.9	5.8	8	5.3	7.2	3.2	1.6 J	1.7 J	1.2
trans-1,3-Dichloropropene	0.4	0.04	< 0.76	< 0.19	< 0.38	---	---	---	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-4			
			6/15/2011	9/29/2011	7/31/2013	6/14/2022
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	70	7	< 0.92	< 0.92	<0.33	<0.36
1,1,1-Trichloroethane	200	40	< 0.90	< 0.90	<0.33	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.20	< 0.20	<0.45	<0.38
1,1,2-Trichloroethane	5	0.5	< 0.42	< 0.42	<0.34	<0.34
1,1-Dichloroethane	850	85	< 0.75	< 0.75	<0.3	<0.30
1,1-Dichloroethene	7	0.7	< 0.57	< 0.57	<0.4	<0.58
1,1-Dichloropropene	NE	NE	< 0.75	< 0.75	---	<0.41
1,2,3-Trichlorobenzene	NE	NE	< 0.74	< 0.74	<1.8	<1.0
1,2,3-Trichloropropane	60	12	< 0.99	< 0.99	---	<0.56
1,2,4-Trichlorobenzene	70	14	< 0.97	< 0.97	<0.98	<0.95
1,2,4-Trimethylbenzene	480*	96*	< 0.97	< 0.97	<2.2	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	< 1.7	< 1.7	<0.88	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	< 0.56	< 0.56	<0.44	<0.31
1,2-Dichlorobenzene	600	60	< 0.83	< 0.83	<0.36	<0.33
1,2-Dichloroethane	5	0.5	< 0.36	< 0.36	<0.41	<0.29
1,2-Dichloropropane	5	0.5	< 0.49	< 0.49	<0.32	<0.45
1,3,5-Trimethylbenzene	480*	96*	< 0.83	< 0.83	<1.4	<0.36
1,3-Dichlorobenzene	600	120	< 0.87	< 0.87	<0.28	<0.35
1,3-Dichloropropane	NE	NE	< 0.61	< 0.61	<0.33	<0.30
1,4-Dichlorobenzene	75	15	< 0.95	< 0.95	<0.3	<0.89
2,2-Dichloropropane	NE	NE	< 0.62	< 0.62	<0.36	<4.2
2-Chlorotoluene	NE	NE	< 0.85	< 0.85	<0.21	<0.89
4-Chlorotoluene	NE	NE	< 0.74	< 0.74	<0.21	<0.89
Benzene	5	0.5	< 0.41	< 0.41	<0.24	<0.30
Bromobenzene	NE	NE	< 0.82	< 0.82	<0.32	<0.36
Bromochloromethane	NE	NE	< 0.97	< 0.97	---	<0.36
Bromodichloromethane	0.6	0.06	< 0.56	< 0.56	<0.37	<0.42
Bromoform	4.4	0.44	< 0.94	< 0.94	<0.35	<3.8
Bromomethane	10	1	< 0.91	< 0.91	---	<1.2
Carbon Tetrachloride	5	0.5	< 0.49	< 0.49	<0.33	<0.37
Chlorobenzene	NE	NE	< 0.41	< 0.41	<0.24	<0.86
Chloroethane	400	80	< 0.97	< 0.97	<0.63	<1.4
Chloroform	6	0.6	< 1.3	< 1.3	<0.28	<1.2
Chloromethane	30	3	< 0.24	< 0.24	<0.81	<1.6
Dibromochloromethane	60	6	< 0.81	< 0.81	<0.22	<2.6
Dibromomethane	NE	NE	< 0.60	< 0.60	---	<0.99
Dichlorodifluoromethane	NE	NE	< 0.99	< 0.99	<0.44	<0.46
Diisopropyl ether	NE	NE	< 0.76	< 0.76	<0.23	<1.1
Ethylbenzene	700	140	< 0.54	< 0.54	<0.55	<0.33
Hexachloro-1,3-butadiene	NE	NE	< 0.67	< 0.67	<1.5	<2.7
Isopropylbenzene	NE	NE	< 0.59	< 0.59	<0.3	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	< 0.61	< 0.61	<0.23	<1.1
Methylene Chloride	5	0.5	< 0.43	< 0.43	<0.5	<0.32
Naphthalene	100	10	< 0.89	< 0.89	<1.7	<1.1
Styrene	100	10	< 0.86	< 0.86	---	<0.36
Tetrachloroethene	5	0.5	< 0.45	< 0.45	<0.33	<0.41
Toluene	800	160	< 0.67	< 0.67	<0.69	<0.29
Trichloroethene	5	0.5	< 0.48	< 0.48	<0.33	<0.32
Trichlorofluoromethane	3490	698	< 0.79	< 0.79	<0.71	<0.42
Vinyl chloride	0.2	0.02	< 0.18	< 0.18	<0.18	<0.17
cis-1,2-Dichloroethene	70	7	< 0.83	< 0.83	<0.38	<0.47
cis-1,3-Dichloropropene	0.4	0.04	< 0.20	< 0.20	---	<0.36
Xylenes	2000	400	< 2.63	< 2.63	<1.32	<1.05
n-Butylbenzene	NE	NE	< 0.93	< 0.93	<0.35	<0.86
n-Propylbenzene	NE	NE	< 0.81	< 0.81	<0.25	<0.35
p-Isopropyltoluene	NE	NE	< 0.67	< 0.67	<0.31	<1.0
sec-Butylbenzene	NE	NE	< 0.89	< 0.89	<0.33	<0.42
tert-Butylbenzene	NE	NE	< 0.97	< 0.97	<0.36	<0.59
trans-1,2-Dichloroethene	100	20	< 0.89	< 0.89	<0.35	<0.53
trans-1,3-Dichloropropene	0.4	0.04	< 0.19	< 0.19	---	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-5							
			6/15/2011	9/29/2011	7/31/2013	4/1/2014	12/29/2016	3/28/2019	6/19/2019	6/16/2022
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	70	7	< 0.92	< 0.92	<0.33	<0.33	<0.48	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	< 0.90	< 0.90	<0.33	<0.33	<0.84	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.20	< 0.20	<0.45	<0.45	<0.52	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	< 0.42	< 0.42	<0.34	<0.34	<0.48	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	< 0.75	< 0.75	<0.3	<0.3	<1.1	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	< 0.57	< 0.57	<0.4	<0.4	<0.65	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	< 0.75	< 0.75	---	---	---	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	< 0.74	< 0.74	<1.8	<1.8	<2.7	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	< 0.99	< 0.99	---	---	---	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	< 0.97	< 0.97	<0.98	<0.98	<1.7	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	< 0.97	< 0.97	<2.2	<2.2	<1.6	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	< 1.7	< 1.7	<0.88	<0.88	<1.4	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	< 0.56	< 0.56	<0.44	<0.44	<0.63	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	< 0.83	< 0.83	<0.36	<0.36	<0.46	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	< 0.36	< 0.36	<0.41	<0.41	<0.48	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	< 0.49	< 0.49	<0.32	<0.32	<0.43	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	< 0.83	< 0.83	<1.4	<1.4	<1.5	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	< 0.87	< 0.87	<0.28	<0.28	<0.52	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	< 0.61	< 0.61	<0.33	<0.33	<0.42	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	< 0.95	< 0.95	<0.3	<0.3	<0.49	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	< 0.62	< 0.62	<0.36	<0.36	<3.1	<2.3	<2.3	<4.2
2-Chlorotoluene	NE	NE	< 0.85	< 0.85	<0.21	<0.21	<0.4	<0.93	<0.93	<0.89
4-Chlorotoluene	NE	NE	< 0.74	< 0.74	<0.21	<0.21	<0.63	<0.76	<0.76	<0.89
Benzene	5	0.5	< 0.41	< 0.41	<0.24	<0.24	<0.44	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	< 0.82	< 0.82	<0.32	<0.32	<0.48	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	< 0.97	< 0.97	---	---	---	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	< 0.56	< 0.56	<0.37	<0.37	<0.46	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	< 0.94	< 0.94	<0.35	<0.35	<0.46	<4.0	<4.0	<3.8
Bromomethane	10	1	< 0.91	< 0.91	---	---	---	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	< 0.49	< 0.49	<0.33	<0.33	<0.51	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	< 0.41	< 0.41	<0.24	<0.24	<0.46	<0.71	<0.71	<0.86
Chloroethane	400	80	< 0.97	< 0.97	<0.63	<0.63	<0.65	<1.3	<1.3	<1.4
Chloroform	6	0.6	< 1.3	< 1.3	<0.28	<0.28	<0.43	<1.3	<1.3	<1.2
Chloromethane	30	3	< 0.24	< 0.24	<0.81	<0.81	<1.9	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	< 0.81	< 0.81	<0.22	<0.22	<0.45	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	< 0.60	< 0.60	---	---	---	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	< 0.99	< 0.99	<0.44	<0.44	<0.87	<0.50	<0.50	<0.46
Diisopropyl ether	NE	NE	< 0.76	< 0.76	<0.23	<0.23	<0.44	<1.9	<1.9	<1.1
Ethylbenzene	700	140	< 0.54	< 0.54	<0.55	<0.55	<0.71	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	< 0.67	< 0.67	<1.5	<1.5	<2.2	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	< 0.59	< 0.59	<0.3	<0.3	<0.82	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	< 0.61	< 0.61	<0.23	<0.23	<1.1	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	< 0.43	< 0.43	<0.5	<0.5	<1.3	<0.58	<0.58	<0.32
Naphthalene	100	10	< 0.89	< 0.89	<1.7	<1.7	<1.6	<1.2	<1.2	<1.1
Styrene	100	10	< 0.86	< 0.86	---	---	---	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	< 0.45	< 0.45	<0.33	<0.33	<0.49	<0.33	<0.33	<0.41
Toluene	800	160	< 0.67	< 0.67	<0.69	<0.69	<0.44	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	< 0.48	< 0.48	<0.33	<0.33	<0.47	<0.26	<0.26	<0.32
Trichlorofluoromethane	3490	698	< 0.79	< 0.79	<0.71	<0.71	<0.87	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	< 0.18	< 0.18	<0.18	<0.18	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	< 0.83	< 0.83	<0.38	<0.38	<0.45	<0.27	<0.27	<0.47
cis-1,3-Dichloropropene	0.4	0.04	< 0.20	< 0.20	---	---	<0.45	<3.6	<3.6	<0.36
Xylenes	2000	400	< 2.63	< 2.63	<1.32	<1.32	<3.1	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	< 0.93	< 0.93	<0.35	<0.35	<1	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	< 0.81	< 0.81	<0.25	<0.25	<0.77	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	< 0.67	< 0.67	<0.31	<0.31	<1.1	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	< 0.89	< 0.89	<0.33	<0.33	<1.2	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	< 0.97	< 0.97	<0.36	<0.36	<1.1	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	< 0.89	< 0.89	<0.35	<0.35	<0.54	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	< 0.19	< 0.19	---	---	---	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-6				
			6/15/2011	9/29/2011	7/31/2013	4/1/2014	6/14/2022
VOCs (µg/L)							
1,1,1,2-Tetrachloroethane	70	7	< 0.92	< 0.92	<0.33	<0.33	<0.36
1,1,1-Trichloroethane	200	40	< 0.90	< 0.90	<0.33	<0.33	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.20	< 0.20	<0.45	<0.45	<0.38
1,1,2-Trichloroethane	5	0.5	< 0.42	< 0.42	<0.34	<0.34	<0.34
1,1-Dichloroethane	850	85	< 0.75	< 0.75	<0.3	<0.3	<0.30
1,1-Dichloroethene	7	0.7	< 0.57	< 0.57	<0.4	<0.4	<0.58
1,1-Dichloropropene	NE	NE	< 0.75	< 0.75	---	---	<0.41
1,2,3-Trichlorobenzene	NE	NE	< 0.74	< 0.74	<1.8	<1.8	<1.0
1,2,3-Trichloropropane	60	12	< 0.99	< 0.99	---	---	<0.56
1,2,4-Trichlorobenzene	70	14	< 0.97	< 0.97	<0.98	<0.98	<0.95
1,2,4-Trimethylbenzene	480*	96*	< 0.97	< 0.97	<2.2	<2.2	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	< 1.7	< 1.7	<0.88	<0.88	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	< 0.56	< 0.56	<0.44	<0.44	<0.31
1,2-Dichlorobenzene	600	60	< 0.83	< 0.83	<0.36	<0.36	<0.33
1,2-Dichloroethane	5	0.5	< 0.36	< 0.36	<0.41	<0.41	<0.29
1,2-Dichloropropane	5	0.5	< 0.49	< 0.49	<0.32	<0.32	<0.45
1,3,5-Trimethylbenzene	480*	96*	< 0.83	< 0.83	<1.4	<1.4	<0.36
1,3-Dichlorobenzene	600	120	< 0.87	< 0.87	<0.28	<0.28	<0.35
1,3-Dichloropropane	NE	NE	< 0.61	< 0.61	<0.33	<0.33	<0.30
1,4-Dichlorobenzene	75	15	< 0.95	< 0.95	<0.3	<0.3	<0.89
2,2-Dichloropropane	NE	NE	< 0.62	< 0.62	<0.36	<0.36	<4.2
2-Chlorotoluene	NE	NE	< 0.85	< 0.85	<0.21	<0.21	<0.89
4-Chlorotoluene	NE	NE	< 0.74	< 0.74	<0.21	<0.21	<0.89
Benzene	5	0.5	< 0.41	< 0.41	<0.24	<0.24	<0.30
Bromobenzene	NE	NE	< 0.82	< 0.82	<0.32	<0.32	<0.36
Bromochloromethane	NE	NE	< 0.97	< 0.97	---	---	<0.36
Bromodichloromethane	0.6	0.06	< 0.56	< 0.56	<0.37	<0.37	<0.42
Bromoform	4.4	0.44	< 0.94	< 0.94	<0.35	<0.35	<3.8
Bromomethane	10	1	< 0.91	< 0.91	---	---	<1.2
Carbon Tetrachloride	5	0.5	< 0.49	< 0.49	<0.33	<0.33	<0.37
Chlorobenzene	NE	NE	< 0.41	< 0.41	<0.24	<0.24	<0.86
Chloroethane	400	80	< 0.97	< 0.97	<0.63	<0.63	<1.4
Chloroform	6	0.6	< 1.3	< 1.3	<0.28	<0.28	<1.2
Chloromethane	30	3	< 0.24	< 0.24	<0.81	<0.81	<1.6
Dibromochloromethane	60	6	< 0.81	< 0.81	<0.22	<0.22	<2.6
Dibromomethane	NE	NE	< 0.60	< 0.60	---	---	<0.99
Dichlorodifluoromethane	NE	NE	< 0.99	< 0.99	<0.44	<0.44	<0.46
Diisopropyl ether	NE	NE	< 0.76	< 0.76	<0.23	<0.23	<1.1
Ethylbenzene	700	140	< 0.54	< 0.54	<0.55	<0.55	<0.33
Hexachloro-1,3-butadiene	NE	NE	< 0.67	< 0.67	<1.5	<1.5	<2.7
Isopropylbenzene	NE	NE	< 0.59	< 0.59	<0.3	<0.3	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	< 0.61	< 0.61	<0.23	<0.23	<1.1
Methylene Chloride	5	0.5	0.62 J	< 0.43	<0.5	<0.5	<0.32
Naphthalene	100	10	< 0.89	< 0.89	<1.7	<1.7	<1.1
Styrene	100	10	< 0.86	< 0.86	---	---	<0.36
Tetrachloroethene	5	0.5	< 0.45	< 0.45	<0.33	<0.33	<0.41
Toluene	800	160	< 0.67	< 0.67	<0.69	<0.69	<0.29
Trichloroethene	5	0.5	< 0.48	< 0.48	<0.33	<0.33	<0.32
Trichlorofluoromethane	3490	698	< 0.79	< 0.79	<0.71	<0.71	<0.42
Vinyl chloride	0.2	0.02	< 0.18	< 0.18	<0.18	<0.18	<0.17
cis-1,2-Dichloroethene	70	7	< 0.83	< 0.83	<0.38	<0.38	<0.47
cis-1,3-Dichloropropene	0.4	0.04	< 0.20	< 0.20	---	---	<0.36
Xylenes	2000	400	< 2.63	< 2.63	<1.32	<1.32	<1.05
n-Butylbenzene	NE	NE	< 0.93	< 0.93	<0.35	<0.35	<0.86
n-Propylbenzene	NE	NE	< 0.81	< 0.81	<0.25	<0.25	<0.35
p-Isopropyltoluene	NE	NE	< 0.67	< 0.67	<0.31	<0.31	<1.0
sec-Butylbenzene	NE	NE	< 0.89	< 0.89	<0.33	<0.33	<0.42
tert-Butylbenzene	NE	NE	< 0.97	< 0.97	<0.36	<0.36	<0.59
trans-1,2-Dichloroethene	100	20	< 0.89	< 0.89	<0.35	<0.35	<0.53
trans-1,3-Dichloropropene	0.4	0.04	< 0.19	< 0.19	---	---	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-7					
			7/31/2013	4/1/2014	12/30/2016	3/28/2019	6/20/2019	6/14/2022
VOCs (µg/L)								
1,1,1,2-Tetrachloroethane	70	7	<0.33	<0.33	<0.48	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	<0.33	<0.33	<0.84	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.45	<0.45	<0.52	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	<0.34	<0.34	<0.48	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	<0.3	<0.3	<1.1	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<0.4	<0.4	<0.65	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	---	---	---	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	<1.8	<1.8	<2.7	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	---	---	---	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	<0.98	<0.98	<1.7	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<2.2	<2.2	<1.6	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<0.88	<0.88	<1.4	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<0.44	<0.44	<0.63	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	<0.36	<0.36	<0.46	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	<0.41	<0.41	<0.48	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	<0.32	<0.32	<0.43	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	<1.4	<1.4	<1.5	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	<0.28	<0.28	<0.52	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	<0.33	<0.33	<0.42	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	<0.3	<0.33	<0.49	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	<0.36	<0.36	<3.1	<2.3	<2.3	<4.2
2-Chlorotoluene	NE	NE	<0.21	<0.21	<0.4	<0.93	<0.93	<0.89
4-Chlorotoluene	NE	NE	<0.21	<0.21	<0.63	<0.76	<0.76	<0.89
Benzene	5	0.5	<0.24	<0.24	<0.44	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	<0.32	<0.32	<0.48	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	---	---	---	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.37	<0.37	<0.46	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	<0.35	<0.35	<0.46	<4.0	<4.0	<3.8
Bromomethane	10	1	---	---	---	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	<0.33	<0.33	<0.51	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	<0.24	<0.24	<0.46	<0.71	<0.71	<0.86
Chloroethane	400	80	<0.63	<0.63	<0.65	<1.3	<1.3	<1.4
Chloroform	6	0.6	<0.28	<0.28	<0.43	<1.3	<1.3	<1.2
Chloromethane	30	3	<0.81	<0.81	<1.9	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	<0.22	<0.22	<0.45	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	---	---	---	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	1.06 J	1.46	1.74 J	1.9 J	0.76J	3.1 J
Diisopropyl ether	NE	NE	<0.23	<0.23	<0.44	<1.9	<1.9	<1.1
Ethylbenzene	700	140	<0.55	<0.55	<0.71	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	<1.5	<1.5	<2.2	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	<0.3	<0.3	<0.82	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<0.23	<0.23	<1.1	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	<0.5	<0.5	<1.3	<0.58	<0.58	<0.32
Naphthalene	100	10	<1.7	<1.7	<1.6	<1.2	<1.2	<1.1
Styrene	100	10	---	---	---	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	<0.33	<0.33	<0.49	<0.33	<0.33	<0.41
Toluene	800	160	<0.69	<0.69	<0.44	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	0.81 J	0.34 J	5.8	0.38 J	<0.26	0.83 J
Trichlorofluoromethane	3490	698	<0.71	<0.71	<0.87	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	<0.18	<0.18	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.38	<0.38	0.78 J	<0.27	<0.27	<0.47
cis-1,3-Dichloropropene	0.4	0.04	---	---	---	<3.6	<3.6	<0.36
Xylenes	2000	400	<1.32	<1.32	<3.1	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	<0.35	<0.35	<1	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	<0.25	<0.25	<0.77	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	<0.31	<0.31	<1.1	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	<0.33	<0.33	<1.2	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	<0.36	<0.36	<1.1	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	<0.35	<0.35	<0.54	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	---	---	---	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-8					
			7/31/2013	4/1/2014	12/30/2016	3/28/2019	6/20/2019	6/24/2021
VOCs (µg/L)								
1,1,1,2-Tetrachloroethane	70	7	<16.5	<3.3	<4.8	<2.7	<1.1	<3.6
1,1,1-Trichloroethane	200	40	<16.5	<3.3	<8.4	<2.4	<0.98	<3.0
1,1,2,2-Tetrachloroethane	0.2	0.02	<22.5	<4.5	<5.2	<2.8	<1.1	<3.8
1,1,2-Trichloroethane	5	0.5	<17	<3.4	<4.8	<5.5	<2.2	<3.4
1,1-Dichloroethane	850	85	<15	<3	<11	<2.7	<1.1	< 3.0
1,1-Dichloroethene	7	0.7	<20	4.3 J	7.3 J	5.5 J	5.8	<5.8
1,1-Dichloropropene	NE	NE	---	---	---	<6.4	<2.2	< 4.1
1,2,3-Trichlorobenzene	NE	NE	<90	<18	<27	<6.3	<2.5	<10.2
1,2,3-Trichloropropane	60	12	---	---	---	<6.9	<2.4	<5.6
1,2,4-Trichlorobenzene	70	14	<49	<9.8	<4.9	<9.5	<3.8	<9.5
1,2,4-Trimethylbenzene	480*	96*	<110	<22	<16	<8.4	<3.4	<4.5
1,2-Dibromo-3-chloropropane	0.2	0.02	<44	<8.8	<14	<17.6	<7.1	<23.7
1,2-Dibromoethane (EDB)	0.05	0.005	<22	<4.4	<6.3	<8.3	<3.3	<3.1
1,2-Dichlorobenzene	600	60	<18	<3.6	<4.6	<7.1	<2.8	<3.3
1,2-Dichloroethane	5	0.5	<20.5	<4.1	<4.8	<2.8	<1.1	<2.9
1,2-Dichloropropane	5	0.5	<16	<3.2	<4.3	<2.8	<1.1	<4.5
1,3,5-Trimethylbenzene	480*	96*	<70	<14	<15	<8.7	<3.5	<3.6
1,3-Dichlorobenzene	600	120	<14	<2.8	<5.2	<6.3	<2.5	<3.5
1,3-Dichloropropane	NE	NE	<16.5	<3.3	<4.2	<8.3	<3.3	<3.0
1,4-Dichlorobenzene	75	15	<15	<3	<4.9	<9.4	<3.8	<8.9
2,2-Dichloropropane	NE	NE	<18	<3.6	<31	<22.7	<9.1	<41.8
2-Chlorotoluene	NE	NE	<10.5	<2.1	<4	<9.3	<3.7	<8.9
4-Chlorotoluene	NE	NE	<10.5	<2.1	<6.3	<7.6	<3.0	<8.9
Benzene	5	0.5	<12	<2.4	<4.4	<2.5	<0.99	<3.0
Bromobenzene	NE	NE	<16	<3.2	<4.8	<2.4	<0.96	<3.6
Bromochloromethane	NE	NE	---	---	---	<3.6	<1.4	<3.6
Bromodichloromethane	0.6	0.06	<18.5	<3.7	<4.6	<3.6	<1.5	<4.2
Bromoform	4.4	0.44	<17.5	<3.5	<4.6	<39.7	<15.9	<38.0
Bromomethane	10	1	---	---	---	<9.7	<3.9	<11.9
Carbon Tetrachloride	5	0.5	<16.5	<3.3	<5.1	<1.7	<0.66	<3.7
Chlorobenzene	NE	NE	<12	<2.4	<4.6	<7.1	<2.8	<8.6
Chloroethane	400	80	<31.5	<6.3	<6.5	<13.4	<5.4	<13.8
Chloroform	6	0.6	<14	<2.8	<4.3	<12.7	<5.1	<11.8
Chloromethane	30	3	<40.5	<8.1	<19	<21.9	<8.8	<16.4
Dibromochloromethane	60	6	<11	<2.2	<4.5	<26.0	<10.4	<26.4
Dibromomethane	NE	NE	---	---	---	<9.4	<3.7	<9.9
Dichlorodifluoromethane	NE	NE	<22	<4.4	<8.7	<5.0	<2.0	<4.6
Diisopropyl ether	NE	NE	<11.5	<2.3	<4.4	<18.9	<7.6	<11.0
Ethylbenzene	700	140	<27.5	<5.5	<7.1	<2.2	<0.87	<3.3
Hexachloro-1,3-butadiene	NE	NE	<75	<15	<22	<11.8	<4.7	<27.4
Isopropylbenzene	NE	NE	<15	<3	<8.2	<3.9	<1.6	<10.0
Methyl-tert-butyl ether (MTBE)	60	12	<11.5	<2.3	<11	<12.5	<5.0	<11.3
Methylene Chloride	5	0.5	<25	<5	<13	<5.8	<2.3	<3.2
Naphthalene	100	10	<85	<17	<16	<11.8	<4.7	<11.3
Styrene	100	10	---	---	---	<4.7	<1.9	<3.6
Tetrachloroethene	5	0.5	<16.5	<3.3	<4.9	<3.3	<1.3	<4.1
Toluene	800	160	<34.5	<6.9	<4.4	<1.7	<0.69	<2.9
Trichloroethene	5	0.5	166	209	153	57.7	73.4	61.2
Trichlorofluoromethane	3490	698	<35.5	<7.1	<8.7	<2.1	<0.86	<4.2
Vinyl chloride	0.2	0.02	37	43	60	56.1	63.4	111
cis-1,2-Dichloroethene	70	7	450	500	490	431	425	586
cis-1,3-Dichloropropene	0.4	0.04	---	---	---	<36.3	<14.5	<3.6
Xylenes	2000	400	<66.0	<13.2	<31	<7.3	<2.9	<10.9
n-Butylbenzene	NE	NE	<17.5	<3.5	<10	<7.1	<2.8	<8.6
n-Propylbenzene	NE	NE	<12.5	<2.5	<7.7	<8.1	<3.2	<3.5
p-Isopropyltoluene	NE	NE	<15.5	<3.1	<11	<8.0	<3.2	<10.4
sec-Butylbenzene	NE	NE	<16.5	<3.3	<12	<8.5	<3.4	<4.2
tert-Butylbenzene	NE	NE	<18	<3.6	<11	<3.0	<1.2	<5.9
trans-1,2-Dichloroethene	100	20	46 J	44	49	78.4	49.2	59.3
trans-1,3-Dichloropropene	0.4	0.04	---	---	---	<43.7	<17.5	<34.6

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	TW-1		
			7/31/2013	9/26/2013	4/1/2014
VOCs (µg/L)					
1,1,1,2-Tetrachloroethane	70	7	<1650	< 330	<330
1,1,1-Trichloroethane	200	40	<1650	< 330	<330
1,1,2,2-Tetrachloroethane	0.2	0.02	<2250	< 450	<450
1,1,2-Trichloroethane	5	0.5	<1700	< 340	<340
1,1-Dichloroethane	850	85	<1500	< 300	<300
1,1-Dichloroethene	7	0.7	<2000	< 400	<400
1,1-Dichloropropene	NE	NE	---	---	---
1,2,3-Trichlorobenzene	NE	NE	<9000	< 1800	<1800
1,2,3-Trichloropropane	60	12	---	---	---
1,2,4-Trichlorobenzene	70	14	<4900	< 980	<980
1,2,4-Trimethylbenzene	480*	96*	<11000	< 2200	<2200
1,2-Dibromo-3-chloropropane	0.2	0.02	<4400	< 880	<880
1,2-Dibromoethane (EDB)	0.05	0.005	<2200	< 440	<440
1,2-Dichlorobenzene	600	60	<1800	< 360	<360
1,2-Dichloroethane	5	0.5	<2050	< 410	<410
1,2-Dichloropropane	5	0.5	<1600	< 320	<320
1,3,5-Trimethylbenzene	480*	96*	<7000	< 1400	<1400
1,3-Dichlorobenzene	600	120	<1400	< 280	<280
1,3-Dichloropropane	NE	NE	<1650	< 330	<330
1,4-Dichlorobenzene	75	15	<1500	< 300	<300
2,2-Dichloropropane	NE	NE	<1800	< 360	<360
2-Chlorotoluene	NE	NE	<1050	< 210	<210
4-Chlorotoluene	NE	NE	<1050	< 210	<210
Benzene	5	0.5	<1200	< 240	<240
Bromobenzene	NE	NE	<1600	< 320	<320
Bromochloromethane	NE	NE	---	---	---
Bromodichloromethane	0.6	0.06	<1850	< 370	<370
Bromoform	4.4	0.44	<1750	< 350	<350
Bromomethane	10	1	---	---	---
Carbon Tetrachloride	5	0.5	<1650	< 330	<330
Chlorobenzene	NE	NE	<1200	< 240	<240
Chloroethane	400	80	<3150	< 630	<630
Chloroform	6	0.6	<1400	< 280	<280
Chloromethane	30	3	<4050	< 810	<810
Dibromochloromethane	60	6	<1100	< 220	<220
Dibromomethane	NE	NE	---	---	---
Dichlorodifluoromethane	NE	NE	<2200	< 440	<440
Diisopropyl ether	NE	NE	<1150	< 230	<230
Ethylbenzene	700	140	<2750	< 550	<550
Hexachloro-1,3-butadiene	NE	NE	<7500	< 1500	<1500
Isopropylbenzene	NE	NE	<1500	< 300	<300
Methyl-tert-butyl ether (MTBE)	60	12	<1150	< 230	<230
Methylene Chloride	5	0.5	<2500	< 500	<500
Naphthalene	100	10	<8500	< 1700	<1700
Styrene	100	10	---	---	---
Tetrachloroethene	5	0.5	<1650	< 330	<330
Toluene	800	160	<3450	< 690	<690
Trichloroethene	5	0.5	34,000	117,000	11,000
Trichlorofluoromethane	3490	698	<3550	< 710	<710
Vinyl chloride	0.2	0.02	14,500	23,500	5,700
cis-1,2-Dichloroethene	70	7	89,000	119,000	17,600
cis-1,3-Dichloropropene	0.4	0.04	---	---	---
Xylenes	2000	400	<6600	< 1320	<1320
n-Butylbenzene	NE	NE	<1750	< 350	<350
n-Propylbenzene	NE	NE	<1250	< 250	<250
p-Isopropyltoluene	NE	NE	<1550	< 310	<310
sec-Butylbenzene	NE	NE	<1650	< 330	<330
tert-Butylbenzene	NE	NE	<1800	< 360	<360
trans-1,2-Dichloroethene	100	20	<1750	2710	<350
trans-1,3-Dichloropropene	0.4	0.04	---	---	---

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	PZ-3					
			7/31/2013	4/1/2014	12/30/2016	3/28/2019	6/20/2019	6/16/2022
VOCs (µg/L)								
1,1,1,2-Tetrachloroethane	70	7	<0.33	<0.33	<0.48	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	<0.33	<0.33	<0.84	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.45	<0.45	<0.52	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	<0.34	<0.34	<0.48	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	<0.3	<0.3	<1.1	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<0.4	<0.4	<0.65	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	---	---	---	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	<1.8	<1.8	<2.7	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	---	---	---	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	<0.98	<0.98	<1.7	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<2.2	<2.2	<1.6	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<0.88	<0.88	<1.4	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<0.44	<0.44	<0.63	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	<0.36	<0.36	<0.46	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	<0.41	<0.41	<0.48	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	<0.32	<0.32	<0.43	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	<1.4	<1.4	<1.5	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	<0.28	<0.28	<0.52	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	<0.28	<0.33	<0.42	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	<0.3	<0.3	<0.49	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	<0.36	<0.36	<3.1	<2.3	<2.3	<4.2
2-Chlorotoluene	NE	NE	<0.21	<0.21	<0.4	<0.93	<0.93	<0.89
4-Chlorotoluene	NE	NE	<0.21	<0.21	<0.63	<0.76	<0.76	<0.89
Benzene	5	0.5	<0.24	<0.24	<0.44	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	<0.32	<0.32	<0.48	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	---	---	---	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.37	<0.37	<0.46	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	<0.35	<0.35	<0.46	<4.0	<4.0	<3.8
Bromomethane	10	1	---	---	---	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	<0.33	<0.33	<0.51	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	<0.24	<0.24	<0.46	<0.71	<0.71	<0.86
Chloroethane	400	80	<0.63	<0.63	<0.65	<1.3	<1.3	<1.4
Chloroform	6	0.6	<0.28	<0.28	<0.43	<1.3	<1.3	<1.2
Chloromethane	30	3	<0.81	<0.81	<1.9	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	<0.22	<0.22	<0.45	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	---	---	---	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	<0.44	<0.44	<0.87	<0.50	<0.50	<0.46
Diisopropyl ether	NE	NE	<0.23	<0.23	<0.44	<1.9	<1.9	<1.1
Ethylbenzene	700	140	<0.55	<0.55	<0.71	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	<1.5	<1.5	<2.2	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	<0.3	<0.3	<0.82	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<0.23	<0.23	<1.1	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	<0.5	<0.5	<1.3	<0.58	<0.58	<0.32
Naphthalene	100	10	<1.7	<1.7	<1.6	<1.2	<1.2	<1.1
Styrene	100	10	---	---	---	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	<0.33	<0.33	<0.49	<0.33	<0.33	<0.41
Toluene	800	160	<0.69	<0.69	<0.44	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	1.93	1.33	4.8	0.49 J	0.51 J	0.43 J
Trichlorofluoromethane	3490	698	<0.71	<0.71	<0.87	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	0.53 J	<0.18	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	4.3	1.61	1.45	1.1	0.58 J	<0.47
cis-1,3-Dichloropropene	0.4	0.04	---	---	---	<3.6	<3.6	<0.36
Xylenes	2000	400	<1.32	<1.32	<3.1	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	<0.35	<0.35	<1	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	<0.25	<0.25	<0.77	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	<0.31	<0.31	<1.1	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	<0.33	<0.33	<1.2	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	<0.36	<0.36	<1.1	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	<0.35	<0.35	<0.54	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	---	---	---	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	PZ-4				
			6/15/2011	9/29/2011	7/31/2013	4/1/2014	6/14/2022
VOCs (µg/L)							
1,1,1,2-Tetrachloroethane	70	7	< 0.92	< 0.92	<0.33	<0.33	<0.36
1,1,1-Trichloroethane	200	40	< 0.90	< 0.90	<0.33	<0.33	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.20	< 0.20	<0.45	<0.45	<0.38
1,1,2-Trichloroethane	5	0.5	< 0.42	< 0.42	<0.34	<0.34	<0.34
1,1-Dichloroethane	850	85	< 0.75	< 0.75	<0.3	<0.3	<0.30
1,1-Dichloroethene	7	0.7	< 0.57	< 0.57	<0.4	<0.4	<0.58
1,1-Dichloropropene	NE	NE	< 0.75	< 0.75	---	---	<0.41
1,2,3-Trichlorobenzene	NE	NE	< 0.74	< 0.74	<1.8	<1.8	<1.0
1,2,3-Trichloropropane	60	12	< 0.99	< 0.99	---	---	<0.56
1,2,4-Trichlorobenzene	70	14	< 0.97	< 0.97	<0.98	<0.98	<0.95
1,2,4-Trimethylbenzene	480*	96*	< 0.97	< 0.97	<2.2	<2.2	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	< 1.7	< 1.7	<0.88	<0.88	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	< 0.56	< 0.56	<0.44	<0.44	<0.31
1,2-Dichlorobenzene	600	60	< 0.83	< 0.83	<0.36	<0.36	<0.33
1,2-Dichloroethane	5	0.5	< 0.36	< 0.36	<0.41	<0.41	<0.29
1,2-Dichloropropane	5	0.5	< 0.49	< 0.49	<0.32	<0.32	<0.45
1,3,5-Trimethylbenzene	480*	96*	< 0.83	< 0.83	<1.4	<1.4	<0.36
1,3-Dichlorobenzene	600	120	< 0.87	< 0.87	<0.28	<0.28	<0.35
1,3-Dichloropropane	NE	NE	< 0.61	< 0.61	<0.33	<0.33	<0.30
1,4-Dichlorobenzene	75	15	< 0.95	< 0.95	<0.3	<0.3	<0.89
2,2-Dichloropropane	NE	NE	< 0.62	< 0.62	<0.36	<0.36	<4.2
2-Chlorotoluene	NE	NE	< 0.85	< 0.85	<0.21	<0.21	<0.89
4-Chlorotoluene	NE	NE	< 0.74	< 0.74	<0.21	<0.21	<0.89
Benzene	5	0.5	< 0.41	< 0.41	<0.24	<0.24	<0.30
Bromobenzene	NE	NE	< 0.82	< 0.82	<0.32	<0.32	<0.36
Bromochloromethane	NE	NE	< 0.97	< 0.97	---	---	<0.36
Bromodichloromethane	0.6	0.06	< 0.56	< 0.56	<0.37	<0.37	<0.42
Bromoform	4.4	0.44	< 0.94	< 0.94	<0.35	<0.35	<3.8
Bromomethane	10	1	< 0.91	< 0.91	---	---	<1.2
Carbon Tetrachloride	5	0.5	< 0.49	< 0.49	<0.33	<0.33	<0.37
Chlorobenzene	NE	NE	< 0.41	< 0.41	<0.24	<0.24	<0.86
Chloroethane	400	80	< 0.97	< 0.97	<0.63	<0.63	<1.4
Chloroform	6	0.6	< 1.3	< 1.3	<0.28	<0.28	<1.2
Chloromethane	30	3	< 0.24	< 0.24	<0.81	<0.81	<1.6
Dibromochloromethane	60	6	< 0.81	< 0.81	<0.22	<0.22	<2.6
Dibromomethane	NE	NE	< 0.60	< 0.60	---	---	<0.99
Dichlorodifluoromethane	NE	NE	< 0.99	< 0.99	<0.44	<0.44	<0.46
Diisopropyl ether	NE	NE	< 0.76	< 0.76	<0.23	<0.23	<1.1
Ethylbenzene	700	140	< 0.54	< 0.54	<0.55	<0.55	<0.33
Hexachloro-1,3-butadiene	NE	NE	< 0.67	< 0.67	<1.5	<1.5	<2.7
Isopropylbenzene	NE	NE	< 0.59	< 0.59	<0.3	<0.3	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	< 0.61	< 0.61	<0.23	<0.23	<1.1
Methylene Chloride	5	0.5	< 0.43	< 0.43	<0.5	<0.5	<0.32
Naphthalene	100	10	< 0.89	< 0.89	<1.7	<1.7	<1.1
Styrene	100	10	< 0.86	< 0.86	---	---	<0.36
Tetrachloroethene	5	0.5	< 0.45	< 0.45	<0.33	<0.33	<0.41
Toluene	800	160	< 0.67	< 0.67	<0.69	<0.69	<0.29
Trichloroethene	5	0.5	< 0.48	< 0.48	<0.33	<0.33	<0.32
Trichlorofluoromethane	3490	698	< 0.79	< 0.79	<0.71	<0.71	<0.42
Vinyl chloride	0.2	0.02	< 0.18	< 0.18	<0.18	<0.18	<0.17
cis-1,2-Dichloroethene	70	7	< 0.83	< 0.83	<0.38	<0.38	<0.47
cis-1,3-Dichloropropene	0.4	0.04	< 0.20	< 0.20	---	---	<0.36
Xylenes	2000	400	< 2.63	< 2.63	<1.32	<1.32	<1.05
n-Butylbenzene	NE	NE	< 0.93	< 0.93	<0.35	<0.35	<0.86
n-Propylbenzene	NE	NE	< 0.81	< 0.81	<0.25	<0.25	<0.35
p-Isopropyltoluene	NE	NE	< 0.67	< 0.67	<0.31	<0.31	<1.0
sec-Butylbenzene	NE	NE	< 0.89	< 0.89	<0.33	<0.33	<0.42
tert-Butylbenzene	NE	NE	< 0.97	< 0.97	<0.36	<0.36	<0.59
trans-1,2-Dichloroethene	100	20	< 0.89	< 0.89	<0.35	<0.35	<0.53
trans-1,3-Dichloropropene	0.4	0.04	< 0.19	< 0.19	---	---	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	PZ-13			
			12/29/2016	3/28/2019	6/20/2019	6/16/2022
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	70	7	<0.48	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	<0.84	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.52	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	<0.48	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	<1.1	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<0.65	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	---	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	<2.7	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	---	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	<1.7	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<1.6	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.4	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<0.63	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	<0.46	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	<0.48	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	<0.43	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	<1.5	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	<0.52	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	<0.42	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	<0.49	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	<3.1	<2.3	<2.3	<0.30
2-Chlorotoluene	NE	NE	<0.4	<0.93	<0.93	<0.36
4-Chlorotoluene	NE	NE	<0.63	<0.76	<0.76	<0.89
Benzene	5	0.5	<0.44	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	<0.48	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	---	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.46	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	<0.46	<4.0	<4.0	<3.8
Bromomethane	10	1	---	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	<0.51	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	<0.46	<0.71	<0.71	<0.86
Chloroethane	400	80	<0.65	<1.3	<1.3	<1.4
Chloroform	6	0.6	<0.43	<1.3	<1.3	<1.2
Chloromethane	30	3	<1.9	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	<0.45	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	---	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	<0.87	<0.50	<0.50	<0.46
Diisopropyl ether	NE	NE	<0.44	<1.9	<1.9	<1.1
Ethylbenzene	700	140	<0.71	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	<2.2	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	<0.82	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<1.1	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	<1.3	<0.58	<0.58	<0.32
Naphthalene	100	10	<1.6	<1.2	<1.2	<1.1
Styrene	100	10	---	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	<0.49	<0.33	<0.33	<0.41
Toluene	800	160	<0.44	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	<0.47	<0.26	<0.26	<0.32
Trichlorofluoromethane	3490	698	<0.87	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.45	<0.27	<0.27	<0.47
cis-1,3-Dichloropropene	0.4	0.04	---	<3.6	<3.6	<0.36
Xylenes	2000	400	<3.1	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	<1	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	<0.77	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	<1.1	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	<1.2	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	<1.1	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	<0.54	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	---	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-14				
			12/30/2016	3/28/2019	6/20/2019	6/24/2021	6/16/2022
VOCs (µg/L)							
1,1,1,2-Tetrachloroethane	70	7	<96	<67.3	<67.3	<88.8	<88.8
1,1,1-Trichloroethane	200	40	<168	<61.2	<61.2	<75.6	<75.6
1,1,2,2-Tetrachloroethane	0.2	0.02	<104	<68.8	<68.8	<94.5	<94.5
1,1,2-Trichloroethane	5	0.5	<96	<138	<138	<86.1	<86.1
1,1-Dichloroethane	850	85	<220	<68.1	<68.1	<73.9	<73.9
1,1-Dichloroethene	7	0.7	<130	181 J	253	<146	150 J
1,1-Dichloropropene	NE	NE	---	<135	<135	<103	<103
1,2,3-Trichlorobenzene	NE	NE	<540	<156	<156	<255	<255
1,2,3-Trichloropropane	60	12	---	<148	<148	<139	<139
1,2,4-Trichlorobenzene	70	14	<340	<238	<238	<238	<238
1,2,4-Trimethylbenzene	480*	96*	<320	<210	<210	<112	<112
1,2-Dibromo-3-chloropropane	0.2	0.02	<280	<441	<441	<592	<592
1,2-Dibromoethane (EDB)	0.05	0.005	<126	<207	<207	<77.3	<77.3
1,2-Dichlorobenzene	600	60	<92	<176	<176	<81.5	<81.5
1,2-Dichloroethane	5	0.5	<96	<70.0	<70.0	<72.9	<72.9
1,2-Dichloropropane	5	0.5	<86	<70.7	<70.7	<112	<112
1,3,5-Trimethylbenzene	480*	96*	<300	<218	<218	<89.3	<89.3
1,3-Dichlorobenzene	600	120	<104	<157	<157	<87.8	<87.8
1,3-Dichloropropane	NE	NE	<84	<206	<206	<76.2	<76.2
1,4-Dichlorobenzene	75	15	<98	<236	<236	<223	<223
2,2-Dichloropropane	NE	NE	<620	<566	<566	<1040	<1040
2-Chlorotoluene	NE	NE	<80	<232	<232	<222	<222
4-Chlorotoluene	NE	NE	<126	<189	<189	<224	<224
Benzene	5	0.5	<88	<61.6	<61.6	<73.9	<73.9
Bromobenzene	NE	NE	<96	<60.3	<60.3	<90.2	<90.2
Bromochloromethane	NE	NE	---	<90.5	<90.5	<89.2	<89.4
Bromodichloromethane	0.6	0.06	<92	<90.9	<90.9	<104	<104
Bromoform	4.4	0.44	<92	<993	<993	<950	<950
Bromomethane	10	1	---	<243	<243	<298	<298
Carbon Tetrachloride	5	0.5	<102	<41.5	<41.5	<92.3	<92.3
Chlorobenzene	NE	NE	<92	<178	<178	<214	<214
Chloroethane	400	80	<130	<336	<336	<345	<345
Chloroform	6	0.6	<86	<318	<318	<296	<296
Chloromethane	30	3	<380	<547	<547	<409	<409
Dibromochloromethane	60	6	<90	<650	<650	<661	<661
Dibromomethane	NE	NE	---	<234	<234	<248	<248
Dichlorodifluoromethane	NE	NE	<174	<125	<125	<114	<114
Diisopropyl ether	NE	NE	<88	<472	<472	<275	<275
Ethylbenzene	700	140	<142	<54.5	<54.5	<81.3	<81.3
Hexachloro-1,3-butadiene	NE	NE	<440	<296	<296	<684	<684
Isopropylbenzene	NE	NE	<164	<98.2	<98.2	<250	<250
Methyl-tert-butyl ether (MTBE)	60	12	<220	<311	<311	<282	<282
Methylene Chloride	5	0.5	<260	<145	<145	<79.9	<79.9
Naphthalene	100	10	<320	<294	<294	<282	<282
Styrene	100	10	---	<116	<116	<89.1	<89.1
Tetrachloroethene	5	0.5	<98	<81.6	<81.6	<102	<102
Toluene	800	160	<88	<43.0	<43.0	<72.0	<72.0
Trichloroethene	5	0.5	36,000	12,800	15,000	16,200	28,100
Trichlorofluoromethane	3490	698	<174	<53.7	<53.7	<105	<105
Vinyl chloride	0.2	0.02	5,900	5,150	5,540	6,410	8,300
cis-1,2-Dichloroethene	70	7	31,400	14,000	16,500	17,600	32,200
cis-1,3-Dichloropropene	0.4	0.04	---	<907	<907	<89.5	<89.5
Xylenes	2000	400	<620	<181.5	<181.5	<261.9	<261.9
n-Butylbenzene	NE	NE	<200	<177	<177	<214	<214
n-Propylbenzene	NE	NE	<154	<203	<203	<86.9	<86.3
p-Isopropyltoluene	NE	NE	<220	<200	<200	<261	<261
sec-Butylbenzene	NE	NE	<200	<212	<212	<106	<106
tert-Butylbenzene	NE	NE	<240	<76.0	<76.0	<147	<147
trans-1,2-Dichloroethene	100	20	870	669 J	824 J	861	2,530
trans-1,3-Dichloropropene	0.4	0.04	---	<1090	<1090	<866	<866

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-15			
			12/30/2016	3/28/2019	6/20/2019	6/24/2021
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	70	7	<4.8	<0.54	<0.54	<0.71
1,1,1-Trichloroethane	200	40	<8.4	<0.49	<0.49	<0.61
1,1,2,2-Tetrachloroethane	0.2	0.02	<5.2	<0.55	<0.55	<0.76
1,1,2-Trichloroethane	5	0.5	<4.8	<1.1	<1.1	<0.69
1,1-Dichloroethane	850	85	<11	<0.55	<0.55	<0.59
1,1-Dichloroethene	7	0.7	82	42.7	67.8	73
1,1-Dichloropropene	NE	NE	---	<1.1	<1.1	<0.82
1,2,3-Trichlorobenzene	NE	NE	<27	<1.3	<1.3	<2.0
1,2,3-Trichloropropane	60	12	---	<1.2	<1.2	<1.1
1,2,4-Trichlorobenzene	70	14	<17	<1.9	<1.9	<1.9
1,2,4-Trimethylbenzene	480*	96*	<16	<1.7	<1.7	<0.90
1,2-Dibromo-3-chloropropane	0.2	0.02	<14	<3.5	<3.5	<4.7
1,2-Dibromoethane (EDB)	0.05	0.005	<6.3	<1.7	<1.7	<0.62
1,2-Dichlorobenzene	600	60	<4.6	<1.4	<1.4	<0.65
1,2-Dichloroethane	5	0.5	<4.8	<0.56	<0.56	<0.58
1,2-Dichloropropane	5	0.5	<4.3	<0.57	<0.57	<0.90
1,3,5-Trimethylbenzene	480*	96*	<15	<1.7	<1.7	<0.71
1,3-Dichlorobenzene	600	120	<5.2	<1.3	<1.3	<0.70
1,3-Dichloropropane	NE	NE	<4.2	<1.7	<1.7	<0.61
1,4-Dichlorobenzene	75	15	<4.9	<1.9	<1.9	<1.8
2,2-Dichloropropane	NE	NE	<31	<4.5	<4.5	<8.4
2-Chlorotoluene	NE	NE	<4	<1.9	<1.9	<1.8
4-Chlorotoluene	NE	NE	<6.3	<1.5	<1.5	<1.8
Benzene	5	0.5	<4.4	<0.49	<0.49	<0.59
Bromobenzene	NE	NE	<4.8	<0.48	<0.48	<0.72
Bromochloromethane	NE	NE	---	<0.72	<0.72	<0.72
Bromodichloromethane	0.6	0.06	<4.6	<0.73	<0.73	<0.83
Bromoform	4.4	0.44	<4.6	<7.9	<7.9	<7.6
Bromomethane	10	1	---	<1.9	<1.9	<2.4
Carbon Tetrachloride	5	0.5	<5.1	<0.33	<0.33	<0.74
Chlorobenzene	NE	NE	<4.6	<1.4	<1.4	<1.7
Chloroethane	400	80	<6.5	<2.7	<2.7	<2.8
Chloroform	6	0.6	<4.5	<2.5	<2.5	<2.4
Chloromethane	30	3	<19	<4.4	<4.4	16.3
Dibromochloromethane	60	6	<4.5	<5.2	<5.2	<5.3
Dibromomethane	NE	NE	---	<1.9	<1.9	<2.0
Dichlorodifluoromethane	NE	NE	23.5 J	6.8 J	14.5	13.2
Diisopropyl ether	NE	NE	<4.4	<3.8	<3.8	<2.2
Ethylbenzene	700	140	<7.1	<0.44	<0.44	<0.65
Hexachloro-1,3-butadiene	NE	NE	<22	<2.4	<2.4	<5.5
Isopropylbenzene	NE	NE	<8.2	<0.79	<0.79	<2.0
Methyl-tert-butyl ether (MTBE)	60	12	<11	<2.5	<2.5	<2.3
Methylene Chloride	5	0.5	<13	<1.2	<1.2	<0.64
Naphthalene	100	10	<16	<2.4	<2.4	<2.3
Styrene	100	10	---	<0.93	<0.93	<0.71
Tetrachloroethene	5	0.5	<4.9	<0.65	<0.65	<0.82
Toluene	800	160	<4.4	<0.34	<0.34	<0.58
Trichloroethene	5	0.5	1,660	350	820	370
Trichlorofluoromethane	3490	698	<8.7	<0.43	<0.43	<0.84
Vinyl chloride	0.2	0.02	191	234	167	233
cis-1,2-Dichloroethene	70	7	390	176	190	162
cis-1,3-Dichloropropene	0.4	0.04	---	<7.3	<7.3	<0.72
Xylenes	2000	400	<31	<1.45	<1.45	<2.1
n-Butylbenzene	NE	NE	<10	<1.4	<1.4	<1.7
n-Propylbenzene	NE	NE	<7.7	<1.6	<1.6	<0.69
p-Isopropyltoluene	NE	NE	<11	<1.6	<1.6	<2.1
sec-Butylbenzene	NE	NE	<12	<1.7	<1.7	<0.85
tert-Butylbenzene	NE	NE	<11	<0.61	<0.61	<1.2
trans-1,2-Dichloroethene	100	20	<37	5.2 J	11.7	4.7
trans-1,3-Dichloropropene	0.4	0.04	---	<8.7	<8.7	<6.9

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	PZ-16			
			12/29/2016	3/27/2019	6/19/2019	6/15/2022
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	70	7	<0.48	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	<0.84	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.52	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	<0.48	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	<1.1	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<0.65	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	---	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	<2.7	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	---	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	<2.7	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<1.6	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.4	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<0.63	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	<0.46	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	<0.48	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	<0.43	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	<1.5	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	<0.52	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	<0.42	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	<0.49	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	<3.1	<2.3	<2.3	<0.30
2-Chlorotoluene	NE	NE	<0.4	<0.93	<0.93	<0.36
4-Chlorotoluene	NE	NE	<0.63	<0.76	<0.76	<0.89
Benzene	5	0.5	<0.44	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	<0.48	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	---	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.46	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	<0.46	<4.0	<4.0	<3.8
Bromomethane	10	1	---	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	<0.51	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	<0.46	<0.71	<0.71	<0.86
Chloroethane	400	80	<0.65	<1.3	<1.3	<1.4
Chloroform	6	0.6	<0.43	<1.3	<1.3	<1.2
Chloromethane	30	3	<1.9	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	<0.45	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	---	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	<0.87	<0.50	<0.50	<0.46
Diisopropyl ether	NE	NE	<0.44	<1.9	<1.9	<1.1
Ethylbenzene	700	140	<0.71	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	<2.2	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	<0.82	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<1.1	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	<1.3	<0.58	<0.58	<0.32
Naphthalene	100	10	<1.6	<1.2	<1.2	<1.1
Styrene	100	10	---	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	<0.49	<0.33	<0.33	<0.41
Toluene	800	160	<0.44	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	<0.47	<0.26	<0.26	<0.32
Trichlorofluoromethane	3490	698	<0.87	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.45	<0.27	<0.27	<0.47
cis-1,3-Dichloropropene	0.4	0.04	---	<3.6	<3.6	<0.36
Xylenes	2000	400	<3.1	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	<1	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	<0.77	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	<1.1	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	<1.2	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	<1.1	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	<0.54	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	---	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-17			
			12/29/2016	3/27/2019	6/19/2019	6/15/2022
VOCs (µg/L)						
1,1,1,2-Tetrachloroethane	70	7	<0.48	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	<0.84	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.52	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	<0.48	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	<1.1	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<0.65	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	---	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	<2.7	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	---	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	<1.7	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<1.6	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.4	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<0.63	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	<0.46	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	<0.48	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	<0.43	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	<1.5	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	<0.52	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	<0.42	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	<0.49	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	<3.1	<2.3	<2.3	<0.30
2-Chlorotoluene	NE	NE	<0.4	<0.93	<0.93	<0.36
4-Chlorotoluene	NE	NE	<0.63	<0.76	<0.76	<0.89
Benzene	5	0.5	<0.44	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	<0.48	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	---	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.46	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	<0.46	<4.0	<4.0	<3.8
Bromomethane	10	1	---	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	<0.51	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	<0.46	<0.71	<0.71	<0.86
Chloroethane	400	80	<0.65	<1.3	<1.3	<1.4
Chloroform	6	0.6	<0.43	<1.3	<1.3	<1.2
Chloromethane	30	3	<1.9	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	<0.45	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	---	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	<0.87	<0.50	<0.50	<0.46
Diisopropyl ether	NE	NE	<0.44	<1.9	<1.9	<1.1
Ethylbenzene	700	140	<0.71	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	<2.2	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	<0.82	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<1.1	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	<1.3	<0.58	<0.58	<0.32
Naphthalene	100	10	<1.6	<1.2	<1.2	<1.1
Styrene	100	10	---	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	<0.49	<0.33	<0.33	<0.41
Toluene	800	160	<0.44	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	<0.47	<0.26	<0.26	<0.32
Trichlorofluoromethane	3490	698	<0.87	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.45	<0.27	<0.27	<0.47
cis-1,3-Dichloropropene	0.4	0.04	---	<3.6	<3.6	<0.36
Xylenes	2000	400	<3.1	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	<1	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	<0.77	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	<1.1	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	<1.2	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	<1.1	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	<0.54	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	---	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	SUMP-1 (Groundwater Pit)		
			10/15/2010	6/15/2011	6/14/2022
VOCs (µg/L)					
1,1,1,2-Tetrachloroethane	70	7	< 46.0	< 46.0	<0.36
1,1,1-Trichloroethane	200	40	< 45.0	< 45.0	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	< 10.0	< 10.0	<0.38
1,1,2-Trichloroethane	5	0.5	< 21.0	< 21.0	<0.34
1,1-Dichloroethane	850	85	< 37.5	< 37.5	<0.30
1,1-Dichloroethene	7	0.7	< 28.5	33.5 J	<0.58
1,1-Dichloropropene	NE	NE	< 37.5	< 37.5	<0.41
1,2,3-Trichlorobenzene	NE	NE	< 37.0	< 37.0	<1.0
1,2,3-Trichloropropane	60	12	< 49.5	< 49.5	<0.56
1,2,4-Trichlorobenzene	70	14	< 48.5	< 48.5	<0.95
1,2,4-Trimethylbenzene	480*	96*	< 48.5	< 48.5	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	< 84.0	< 84.0	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	< 28.0	< 28.0	<0.31
1,2-Dichlorobenzene	600	60	< 41.5	< 41.5	<0.33
1,2-Dichloroethane	5	0.5	< 18.0	< 18.0	<0.29
1,2-Dichloropropane	5	0.5	< 24.5	< 24.5	<0.45
1,3,5-Trimethylbenzene	480*	96*	< 41.5	< 41.5	<0.36
1,3-Dichlorobenzene	600	120	< 43.5	< 43.5	<0.35
1,3-Dichloropropane	NE	NE	< 30.5	< 30.5	<0.30
1,4-Dichlorobenzene	75	15	< 47.5	< 47.5	<0.89
2,2-Dichloropropane	NE	NE	< 31.0	< 31.0	<4.2
2-Chlorotoluene	NE	NE	< 42.5	< 42.5	<0.89
4-Chlorotoluene	NE	NE	< 37.0	< 37.0	<0.89
Benzene	5	0.5	< 20.5	< 20.5	<0.30
Bromobenzene	NE	NE	< 41.0	< 41.0	<0.36
Bromochloromethane	NE	NE	< 48.5	< 48.5	<0.36
Bromodichloromethane	0.6	0.06	< 28.0	< 28.0	<0.42
Bromoform	4.4	0.44	< 47.0	< 47.0	<3.8
Bromomethane	10	1	< 45.5	< 45.5	<1.2
Carbon Tetrachloride	5	0.5	< 24.5	< 24.5	<0.37
Chlorobenzene	NE	NE	< 20.5	< 20.5	<0.86
Chloroethane	400	80	< 48.5	< 48.5	<1.4
Chloroform	6	0.6	< 65.0	< 65.0	<1.2
Chloromethane	30	3	< 12.0	< 12.0	<1.6
Dibromochloromethane	60	6	< 40.5	< 40.5	<2.6
Dibromomethane	NE	NE	< 30.0	< 30.0	<0.99
Dichlorodifluoromethane	NE	NE	< 49.5	< 49.5	<0.46
Diisopropyl ether	NE	NE	< 38.0	< 38.0	<1.1
Ethylbenzene	700	140	< 27.0	< 27.0	<0.33
Hexachloro-1,3-butadiene	NE	NE	< 33.5	< 33.5	<2.7
Isopropylbenzene	NE	NE	< 29.5	< 29.5	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	< 30.5	< 30.5	<1.1
Methylene Chloride	5	0.5	< 21.5	< 21.5	<0.32
Naphthalene	100	10	< 44.5	< 44.5	<1.1
Styrene	100	10	< 43.0	< 43.0	<0.36
Tetrachloroethene	5	0.5	< 22.5	< 22.5	<0.41
Toluene	800	160	< 33.5	< 33.5	<0.29
Trichloroethene	5	0.5	3,940	8,100	23.9
Trichlorofluoromethane	3490	698	< 39.5	< 39.5	<0.42
Vinyl chloride	0.2	0.02	1,990	2,950	2.5
cis-1,2-Dichloroethene	70	7	3,270	4,480	26.2
cis-1,3-Dichloropropene	0.4	0.04	< 10.0	< 10.0	<0.36
Xylenes	2000	400	<131.5	< 131.5	<1.05
n-Butylbenzene	NE	NE	< 46.5	< 46.5	<0.86
n-Propylbenzene	NE	NE	< 40.5	< 40.5	<0.35
p-Isopropyltoluene	NE	NE	< 33.5	< 33.5	<1.0
sec-Butylbenzene	NE	NE	< 44.5	< 44.5	<0.42
tert-Butylbenzene	NE	NE	< 48.5	< 48.5	<0.59
trans-1,2-Dichloroethene	100	20	156	192	0.88 J
trans-1,3-Dichloropropene	0.4	0.04	< 9.5	< 9.5	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	SUMP-2 (Basement)	
			10/15/2010	6/15/2011
VOCs (µg/L)				
1,1,1,2-Tetrachloroethane	70	7	< 0.92	< 0.92
1,1,1-Trichloroethane	200	40	< 0.90	< 0.90
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.20	< 0.20
1,1,2-Trichloroethane	5	0.5	< 0.42	< 0.42
1,1-Dichloroethane	850	85	< 0.75	< 0.75
1,1-Dichloroethene	7	0.7	0.73 J	< 0.57
1,1-Dichloropropene	NE	NE	< 0.75	< 0.75
1,2,3-Trichlorobenzene	NE	NE	< 0.74	< 0.74
1,2,3-Trichloropropane	60	12	< 0.99	< 0.99
1,2,4-Trichlorobenzene	70	14	< 0.97	< 0.97
1,2,4-Trimethylbenzene	480*	96*	< 0.97	< 0.97
1,2-Dibromo-3-chloropropane	0.2	0.02	< 1.7	< 1.7
1,2-Dibromoethane (EDB)	0.05	0.005	< 0.56	< 0.56
1,2-Dichlorobenzene	600	60	< 0.83	< 0.83
1,2-Dichloroethane	5	0.5	< 0.36	< 0.36
1,2-Dichloropropane	5	0.5	< 0.49	< 0.49
1,3,5-Trimethylbenzene	480*	96*	< 0.83	< 0.83
1,3-Dichlorobenzene	600	120	< 0.87	< 0.87
1,3-Dichloropropane	NE	NE	< 0.61	< 0.61
1,4-Dichlorobenzene	75	15	< 0.95	< 0.95
2,2-Dichloropropane	NE	NE	< 0.62	< 0.62
2-Chlorotoluene	NE	NE	< 0.85	< 0.85
4-Chlorotoluene	NE	NE	< 0.74	< 0.74
Benzene	5	0.5	< 0.41	< 0.41
Bromobenzene	NE	NE	< 0.82	< 0.82
Bromochloromethane	NE	NE	< 0.97	< 0.97
Bromodichloromethane	0.6	0.06	< 0.56	< 0.56
Bromoform	4.4	0.44	< 0.94	< 0.94
Bromomethane	10	1	< 0.91	< 0.91
Carbon Tetrachloride	5	0.5	< 0.49	< 0.49
Chlorobenzene	NE	NE	< 0.41	< 0.41
Chloroethane	400	80	< 0.97	< 0.97
Chloroform	6	0.6	< 1.3	< 1.3
Chloromethane	30	3	< 0.24	< 0.24
Dibromochloromethane	60	6	< 0.81	< 0.81
Dibromomethane	NE	NE	< 0.60	< 0.60
Dichlorodifluoromethane	NE	NE	1.8	< 0.99
Diisopropyl ether	NE	NE	< 0.76	< 0.76
Ethylbenzene	700	140	< 0.54	< 0.54
Hexachloro-1,3-butadiene	NE	NE	< 0.67	< 0.67
Isopropylbenzene	NE	NE	< 0.59	< 0.59
Methyl-tert-butyl ether (MTBE)	60	12	< 0.61	< 0.61
Methylene Chloride	5	0.5	< 0.43	< 0.43
Naphthalene	100	10	< 0.89	< 0.89
Styrene	100	10	< 0.86	< 0.86
Tetrachloroethene	5	0.5	< 0.45	< 0.45
Toluene	800	160	< 0.67	< 0.67
Trichloroethene	5	0.5	84.7	72
Trichlorofluoromethane	3490	698	< 0.79	< 0.79
Vinyl chloride	0.2	0.02	0.66 J	0.31 J
cis-1,2-Dichloroethene	70	7	106	45.3
cis-1,3-Dichloropropene	0.4	0.04	< 0.20	< 0.20
Xylenes	2000	400	< 2.63	< 2.63
n-Butylbenzene	NE	NE	< 0.93	< 0.93
n-Propylbenzene	NE	NE	< 0.81	< 0.81
p-Isopropyltoluene	NE	NE	< 0.67	< 0.67
sec-Butylbenzene	NE	NE	< 0.89	< 0.89
tert-Butylbenzene	NE	NE	< 0.97	< 0.97
trans-1,2-Dichloroethene	100	20	4.8	2
trans-1,3-Dichloropropene	0.4	0.04	< 0.19	< 0.19

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-18		
			3/28/2019	6/20/2019	6/15/2022
VOCs (µg/L)					
1,1,1,2-Tetrachloroethane	70	7	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	<2.3	<2.3	<0.30
2-Chlorotoluene	NE	NE	<0.93	<0.93	<0.36
4-Chlorotoluene	NE	NE	<0.76	<0.76	<0.89
Benzene	5	0.5	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	<4.0	<4.0	<3.8
Bromomethane	10	1	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	<0.71	<0.71	<0.86
Chloroethane	400	80	<1.3	<1.3	<1.4
Chloroform	6	0.6	<1.3	<1.3	<1.2
Chloromethane	30	3	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	0.51 J	<0.50	0.51 J
Diisopropyl ether	NE	NE	<1.9	<1.9	<1.1
Ethylbenzene	700	140	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	<0.58	<0.58	<0.32
Naphthalene	100	10	<1.2	<1.2	<1.1
Styrene	100	10	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	<0.33	<0.33	<0.41
Toluene	800	160	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	<0.26	<0.26	<0.32
Trichlorofluoromethane	3490	698	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.27	<0.27	<0.47
cis-1,3-Dichloropropene	0.4	0.04	<3.6	<3.6	<0.36
Xylenes	2000	400	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	MW-19		
			3/28/2019	6/20/2019	6/16/2022
VOCs (µg/L)					
1,1,1,2-Tetrachloroethane	70	7	<0.27	<0.27	<0.36
1,1,1-Trichloroethane	200	40	<0.24	<0.24	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.28	<0.28	<0.38
1,1,2-Trichloroethane	5	0.5	<0.55	<0.55	<0.34
1,1-Dichloroethane	850	85	<0.27	<0.27	<0.30
1,1-Dichloroethene	7	0.7	<0.24	<0.24	<0.58
1,1-Dichloropropene	NE	NE	<0.54	<0.54	<0.41
1,2,3-Trichlorobenzene	NE	NE	<0.63	<0.63	<1.0
1,2,3-Trichloropropane	60	12	<0.59	<0.59	<0.56
1,2,4-Trichlorobenzene	70	14	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<0.84	<0.84	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<1.8	<1.8	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<0.83	<0.83	<0.31
1,2-Dichlorobenzene	600	60	<0.71	<0.71	<0.33
1,2-Dichloroethane	5	0.5	<0.28	<0.28	<0.29
1,2-Dichloropropane	5	0.5	<0.28	<0.28	<0.45
1,3,5-Trimethylbenzene	480*	96*	<0.87	<0.87	<0.36
1,3-Dichlorobenzene	600	120	<0.63	<0.63	<0.35
1,3-Dichloropropane	NE	NE	<0.83	<0.83	<0.30
1,4-Dichlorobenzene	75	15	<0.94	<0.94	<0.89
2,2-Dichloropropane	NE	NE	<2.3	<2.3	<4.2
2-Chlorotoluene	NE	NE	<0.93	<0.93	<0.89
4-Chlorotoluene	NE	NE	<0.76	<0.76	<0.89
Benzene	5	0.5	<0.25	<0.25	<0.30
Bromobenzene	NE	NE	<0.24	<0.24	<0.36
Bromochloromethane	NE	NE	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<0.36	<0.36	<0.42
Bromoform	4.4	0.44	<4.0	<4.0	<3.8
Bromomethane	10	1	<0.97	<0.97	<1.2
Carbon Tetrachloride	5	0.5	<0.17	<0.17	<0.37
Chlorobenzene	NE	NE	<0.71	<0.71	<0.86
Chloroethane	400	80	<1.3	<1.3	<1.4
Chloroform	6	0.6	<1.3	<1.3	<1.2
Chloromethane	30	3	<2.2	<2.2	<1.6
Dibromochloromethane	60	6	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	<0.94	<0.94	<0.99
Dichlorodifluoromethane	NE	NE	<0.50	<0.50	<0.46
Diisopropyl ether	NE	NE	<1.9	<1.9	<1.1
Ethylbenzene	700	140	<0.22	<0.22	<0.33
Hexachloro-1,3-butadiene	NE	NE	<1.2	<1.2	<2.7
Isopropylbenzene	NE	NE	<0.39	<0.39	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<1.2	<1.2	<1.1
Methylene Chloride	5	0.5	<0.58	<0.58	<0.32
Naphthalene	100	10	<1.2	<1.2	<1.1
Styrene	100	10	<0.47	<0.47	<0.36
Tetrachloroethene	5	0.5	<0.33	<0.33	<0.41
Toluene	800	160	<0.17	<0.17	<0.29
Trichloroethene	5	0.5	<0.26	<0.26	<0.32
Trichlorofluoromethane	3490	698	<0.21	<0.21	<0.42
Vinyl chloride	0.2	0.02	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	70	7	<0.27	<0.27	<0.47
cis-1,3-Dichloropropene	0.4	0.04	<3.6	<3.6	<0.36
Xylenes	2000	400	<0.73	<0.73	<1.05
n-Butylbenzene	NE	NE	<0.71	<0.71	<0.86
n-Propylbenzene	NE	NE	<0.81	<0.81	<0.35
p-Isopropyltoluene	NE	NE	<0.80	<0.80	<1.0
sec-Butylbenzene	NE	NE	<0.85	<0.85	<0.42
tert-Butylbenzene	NE	NE	<0.30	<0.30	<0.59
trans-1,2-Dichloroethene	100	20	<1.1	<1.1	<0.53
trans-1,3-Dichloropropene	0.4	0.04	<4.4	<4.4	<3.5

Table A.1.a - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Parameter	NR 140 ES	NR 140 PAL	TW-20		TW-21	TW-22	TW-23	TW-24	TW-25	TW-26	TW-27	TW-28
			2/2/2022	6/16/2022	2/2/2022	2/2/2022	2/2/2022	2/2/2022	2/2/2022	6/15/2022	6/15/2022	6/15/2022
VOCs (µg/L)												
1,1,1,2-Tetrachloroethane	70	7	<222	<222	<3.6	<0.71	<0.71	<0.36	<0.36	<0.36	<0.36	<0.36
1,1,1-Trichloroethane	200	40	<189	<189	<3.0	<0.61	<0.61	<0.30	<0.30	<0.30	<0.30	<0.30
1,1,2,2-Tetrachloroethane	0.2	0.02	<236	<236	<3.8	<0.76	<0.76	<0.38	<0.38	<0.38	<0.38	<0.38
1,1,2-Trichloroethane	5	0.5	<215	<215	<3.4	<0.69	<0.69	<0.34	<0.34	<0.34	<0.34	<0.34
1,1-Dichloroethane	850	85	542 J	406 J	<3.0	0.94 J	<0.59	<0.30	<0.30	13.5	<0.30	<0.30
1,1-Dichloroethene	7	0.7	867	687	14.8	<1.2	10.9	34.3	<0.58	<0.58	<0.58	<0.58
1,1-Dichloropropene	NE	NE	<256	<256	<4.1	<0.82	<0.82	<0.41	<0.41	<0.41	<0.41	<0.41
1,2,3-Trichlorobenzene	NE	NE	<636	<636	<10.2	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	60	12	<347	<347	<5.6	<1.1	<1.1	<0.56	<0.56	<0.56	<0.56	<0.56
1,2,4-Trichlorobenzene	70	14	<594	<594	<9.5	<1.9	<1.9	1.3 J	<0.95	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	480*	96*	<280	<280	<4.5	<0.90	<0.90	<0.45	<0.45	<0.45	<0.45	<0.45
1,2-Dibromo-3-chloropropane	0.2	0.02	<1480	<1480	<23.7	<4.7	<4.7	<2.4	<2.4	<2.4	<2.4	<2.4
1,2-Dibromoethane (EDB)	0.05	0.005	<193	<193	<3.1	<0.62	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31
1,2-Dichlorobenzene	600	60	<204	<204	<3.3	<0.65	<0.65	<0.33	<0.33	<0.33	<0.33	<0.33
1,2-Dichloroethane	5	0.5	<182	<182	<2.9	<0.58	<0.58	<0.29	<0.29	1.8	<0.29	<0.29
1,2-Dichloropropane	5	0.5	<280	<280	<4.5	<0.90	<0.90	<0.45	<0.45	<0.45	<0.45	<0.45
1,3,5-Trimethylbenzene	480*	96*	<223	<223	<3.6	<0.71	<0.71	<0.36	<0.36	<0.36	<0.36	<0.36
1,3-Dichlorobenzene	600	120	<219	<219	<3.5	<0.70	<0.70	<0.35	<0.35	<0.35	<0.35	<0.35
1,3-Dichloropropane	NE	NE	<190	<190	<3.0	<0.61	<0.61	<0.30	<0.30	<0.30	<0.30	<0.30
1,4-Dichlorobenzene	75	15	<558	<558	<8.9	<1.8	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
2,2-Dichloropropane	NE	NE	<2610	<2610	<41.8	<8.4	<8.4	<4.2	<4.2	<4.2	<4.2	<4.2
2-Chlorotoluene	NE	NE	<556	<556	<8.9	<1.8	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
4-Chlorotoluene	NE	NE	<559	<559	<8.9	<1.8	<1.8	<0.89	<0.89	<0.89	<0.89	<0.89
Benzene	5	0.5	<185	<185	<3.0	<0.59	<0.59	<0.30	<0.30	<0.30	<0.30	<0.30
Bromobenzene	NE	NE	<226	<226	<3.6	<0.72	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36
Bromochloromethane	NE	NE	<224	<224	<3.6	<0.72	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36
Bromodichloromethane	0.6	0.06	<260	<260	<4.2	<0.83	<0.83	<0.42	<0.42	<0.42	<0.42	<0.42
Bromoform	4.4	0.44	<2370	<2370	<38.0	<0.83	<0.83	<3.8	<3.8	<3.8	<3.8	<3.8
Bromomethane	10	1	<745	<745	<11.9	<2.4	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
Carbon Tetrachloride	5	0.5	<231	<231	<3.7	<0.74	<0.74	<0.37	<0.37	<0.37	<0.37	<0.37
Chlorobenzene	NE	NE	<535	<535	<8.6	<1.7	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
Chloroethane	400	80	<862	<862	<13.8	<2.8	<2.8	<1.4	<1.4	<1.4	<1.4	<1.4
Chloroform	6	0.6	<739	<739	<11.8	<2.4	<2.4	<1.2	<1.2	<1.2	<1.2	<1.2
Chloromethane	30	3	<1020	<1020	<3.3	<3.3	<3.3	<1.6	<1.6	<1.6	<1.6	<1.6
Dibromochloromethane	60	6	<1650	<1650	<26.4	<5.3	<5.3	<2.6	<2.6	<2.6	<2.6	<2.6
Dibromomethane	NE	NE	<619	<619	<9.9	<2.0	<2.0	<0.99	<0.99	<0.99	<0.99	<0.99
Dichlorodifluoromethane	NE	NE	<285	<285	<4.6	<0.91	19.6	135	22.6	121	<0.46	<0.46
Diisopropyl ether	NE	NE	<688	<688	<11.0	<2.2	<2.2	<1.1	<1.1	<1.1	<1.1	<1.1
Ethylbenzene	700	140	<203	<203	<3.3	<0.65	<0.65	<0.33	<0.33	<0.33	<0.33	<0.33
Hexachloro-1,3-butadiene	NE	NE	<1710	<1710	<27.4	<5.5	<5.5	<2.7	<2.7	<2.7	<2.7	<2.7
Isopropylbenzene	NE	NE	<625	<625	<10.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether (MTBE)	60	12	<706	<706	<11.3	<2.3	<2.3	<1.1	<1.1	<1.1	<1.1	<1.1
Methylene Chloride	5	0.5	<200	<200	<3.2	<0.64	<0.64	<0.32	<0.32	<0.32	<0.32	<0.32
Naphthalene	100	10	<706	<706	<11.3	<2.3	<2.3	<1.1	<1.1	<1.1	<1.1	<1.1
Styrene	100	10	<223	<223	<3.6	<0.71	<0.71	<0.36	<0.36	<0.36	<0.36	<0.36
Tetrachloroethene	5	0.5	<255	<255	<4.1	<0.82	<0.82	<0.41	<0.41	<0.41	<0.41	<0.41
Toluene	800	160	<180	<180	<2.9	<0.58	<0.58	<0.29	<0.29	<0.29	<0.29	<0.29
Trichloroethene	5	0.5	78,300	69,200	345	8.1	109	125	<0.32	27.1	<0.32	<0.32
Trichlorofluoromethane	3490	698	<262	<262	<4.2	<0.84	<0.84	<0.42	<0.42	<0.42	<0.42	<0.42
Vinyl chloride	0.2	0.02	47,800	40,100	166	166	19.9	409	<0.17	47	0.27 J	<0.17
cis-1,2-Dichloroethene	70	7	183,000	160,000	842	126	163	84.1	<0.47	52.6	<0.47	<0.47
cis-1,3-Dichloropropene	0.4	0.04	<234	<224	<3.6	<0.72	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36
Xylenes	2000	400	<655	<655	<10.5	<2.1	<2.1	<1.05	<1.05	<1.05	<1.05	<1.05
n-Butylbenzene	NE	NE	<536	<536	<8.6	<1.7	<1.7	<0.86	<0.86	<0.86	<0.86	<0.86
n-Propylbenzene	NE	NE	<216	<216	<3.5	<0.69	<0.69	<0.35	<0.35	<0.35	<0.35	<0.35
p-Isopropyltoluene	NE	NE	<652	<652	<10.4	<2.1	<2.1	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NE	NE	<265	<265	<4.2	<0.85	<0.85	<0.42	<0.42	<0.42	<0.42	<0.42
tert-Butylbenzene	NE	NE	<366	<366	<5.9	<1.2	<1.2	<0.59	<0.59	<0.59	<0.59	<0.59
trans-1,2-Dichloroethene	100	20	2,660	2,050	129	9.9	1.3 J	4.2	<0.53	2	<0.53	<0.53
trans-1,3-Dichloropropene	0.4	0.04	<2160	<2160	<34.6	<6.9	<6.9	<3.5	<3.5	<3.5	<3.5	<3.5

Key:
VOC - Volatile Organic Compounds
J - Analyte detected between the laboratory Limit of Detection and LLimit of Quantitation
NE - Not established by Chapter NR 140 Wis. Adm. Code
µg/L - Micrograms per liter
-- - Not analyzed
5 - Exceeds Chapter NR 140 Enforcement Standard
0.5 - Exceeds Chapter NR 140 Preventive Action Limit
* - NR 140 ES and PAL values are for combined 1,2,4- and 1,3,5-Trimethylbenzene

Table A.1.b - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Well ID	Date Sampled	Relevant and Significant Metals Analytical Results (µg/L)								
		Arsenic	Barium	Cadmium	Chromium	Hexavalent Chromium	Lead	Mercury	Selenium	Silver
NR 140 Preventive Action Limit (µg/l)		1	400	0.5	10	NE	1.5	0.2	10	10
NR 140 Enforcement Standard (µg/l)		10	2,000	5	100	NE	15	2	50	50
MW-1	10/15/10	7.3 J	1,070	2.3 J	1.1 J	<3.9	<1.7	<0.10	<2.0	<0.52
	06/15/11	6.2 J	316	0.63 J	1.4 J	---	2.9 J	<0.10	<1.9	<0.46
	09/29/11	5.6 J	397	0.23 J	<0.44	---	2.4 J	<0.10	<1.9	<0.46
	07/31/13	<0.6	233	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	1.9	201	<0.5	<2.6	---	<0.7	<0.04	1.6 J	<51.5
	12/30/16	<0.6	105	<0.3	7.4	---	<0.6	<11	<1.1	<1.9
	03/28/19	<10.8	109	<1.3	33.7	---	<12.8	<0.084	<24.7	<3.2
	06/20/19	8.7 J	128	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/16/22	---	---	---	3.3 J	<7.3	---	---	---	---
MW-2	10/15/10	2.6 J	422	<0.26	<0.50	<3.9	<1.7	<0.10	<2.0	<0.52
	06/15/11	3.5 J	285	0.33 J	<0.44	---	3.1 J	<0.10	4.1 J	<0.46
	09/29/11	6.0 J	2.76	0.17 J	<0.44	---	2.54 J	<0.10	<1.9	<0.46
	07/31/13	2.7	179	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	1.5 J	291	<0.5	<2.6	---	12.2	<0.04	<1	<51.5
	12/30/16	1.1 J	39.2	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	NS	NS	NS	NS	---	NS	NS	NS	NS
	06/20/19	8.7 J	88.2	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/16/22	---	---	---	---	---	---	---	---	---
MW-3	10/15/10	3.2 J	385	<0.26	<0.50	<3.9	2.1 J	<0.10	<2.0	<0.52
	06/15/11	3.2 J	156	0.19 J	4.2 J	---	<2.4	<0.10	<1.9	<0.46
	09/29/11	4.6 J	190	<0.13	<0.44	---	2.1 J	<0.10	<1.9	<0.46
	07/31/13	<0.6	161	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	1.8 J	105	<0.5	<2.6	---	<0.7	<0.04	<1	<51.5
	12/30/16	<0.6	101	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	8.1 J	86.2	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	13.1 J	93	<1.3	<2.5	---	<6.4	<0.084	17.8 J	<3.2
	06/16/22	---	---	---	---	---	---	---	---	---
MW-4	06/15/11	2.9 J	127	<0.13	<0.44	---	<2.4	<0.10	3.2 J	<0.46
	09/29/11	4.4 J	85.9	<0.13	<0.44	---	<1.5	<0.10	<1.9	<0.46
	07/31/13	<0.6	99.4	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	03/28/19	<5.4	---	---	---	---	---	---	---	---
	06/19/19	<8.3	---	---	---	---	---	---	---	---
	06/14/22	<8.3	59.1	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
TW-1	04/01/14	1.3 J	252	<0.5	<2.6	---	<0.7	<0.4	<1	<51.5
MW-5	06/15/11	2.1 J	157	0.24 J	<0.44	---	<2.4	<0.10	2.2 J	<0.46
	09/29/11	4.7 J	138	<0.13	<0.44	---	2.5 J	<0.10	<1.9	<0.46
	07/31/13	<0.6	137	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	<0.6	129	<0.5	<2.6	---	<0.7	<0.04	<1	<51.5
	12/29/16	<0.6	122	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	<5.4	125	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/19/19	8.7 J	128	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/16/22	<8.3	124	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
	06/16/22	---	---	---	---	---	---	---	---	---
MW-6	06/15/11	2.1 J	181	0.28 J	<0.44	---	2.9 J	<0.10	5.3 J	<0.46
	09/29/11	6.8 J	178	0.13 J	<0.44	---	2.7 J	<0.10	<1.9	<0.46
	07/31/13	<0.6	162	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	<0.6	186	<0.5	<2.6	---	<0.7	<0.04	<1	<51.5
	06/14/22	<8.3	171	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
MW-7	07/31/13	<0.6	250	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	<0.6	193	<0.5	<2.6	---	<0.7	<0.04	<1	<51.5
	12/30/16	<0.6	190	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	7.3 J	191	<1.3	<2.5	---	6.4 J	<0.084	14.0 J	<3.2
	06/20/19	<5.4	190	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/14/22	<8.3	250	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
MW-8	07/31/13	<0.6	54.3	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	<0.6	45.4	<0.5	<2.6	---	<0.7	<0.04	<1	<51.5
	12/30/16	<0.6	27.8 J	<0.6	<1.4	---	<0.8	<0.11	<1.1	<3.8
	03/28/19	9.3 J	24.2	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	18.0 J	26.2	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
PZ-3	07/31/13	<0.6	47.3	<0.5	<2.6	---	<0.7	<0.04	<1	<10.3
	04/01/14	<0.6	29.5	<0.5	<2.6	---	<0.7	<0.04	<1	<51.5
	12/30/16	<0.6	26.9 J	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	<5.4	25.1	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	5.9 J	24.6	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/16/22	<8.3	26.5	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2

Table A.1.b - Groundwater Analytical Results
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI

Well ID	Date Sampled	Relevant and Significant Metals Analytical Results (µg/L)								
		Arsenic	Barium	Cadmium	Chromium	Hexavalent Chromium	Lead	Mercury	Selenium	Silver
NR 140 Preventive Action Limit (µg/l)		1	400	0.5	10	NE	1.5	0.2	10	10
NR 140 Enforcement Standard (µg/l)		10	2,000	5	100	NE	15	2	50	50
PZ-4	06/15/11	<2.0	37.8	<0.13	<0.44	---	<2.4	<0.10	2.5 J	<0.46
	09/29/11	2.0 J	32.1	<0.13	<0.44	---	<1.5	<0.10	<1.9	<0.46
	07/31/13	<0.6	34.9	<0.5	<2.6	---	0.8 J	<0.04	<1	20.9 J
	04/01/14	0.6 J	22.7	<0.5	<2.6	---	10.7	<0.04	<1	<51.5
	03/28/19	---	---	---	---	---	<6.4	---	---	---
	06/19/19	---	---	---	---	---	<5.9	---	---	---
SUMP-1	10/15/10	<133	125 J	6,620	1,150,000	1,290,000	<173	0.13 J	<200	<51.7
	06/15/11	<17.6	113	1,970	358,000	---	15.7 J	<0.10	<22.5	<6.9
	06/14/22	<8.3	36.5	16.3	186	---	<5.9	<0.066	<12.2	<3.2
SUMP-2	10/15/10	<1.3	101	36.2	1,100	1100	<1.7	<0.10	<2.0	<0.52
	06/15/11	<1.8	67	8.2	520	---	<1.3	<0.10	<2.2	<0.69
PZ-13	12/29/16	<0.6	24.7 J	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	<5.4	22.2	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	5.8 J	22.5	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/16/22	<8.3	22.4	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
MW-14	12/30/16	<0.6	372	0.7 J	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	<5.4	102	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	20.9 J	172	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/16/22	---	---	---	<2.5	<18	---	---	---	---
MW-15	12/30/16	1.9	92.8	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/28/19	8.2 J	79.3	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	23.0 J	107	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
PZ-16	12/29/16	8.7	52.7	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/27/19	6.2 J	42.5	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/19/19	9.2 J	41.8	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/15/22	<8.3	47.8	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
MW-17	12/29/16	0.8 J	109	<0.3	<0.7	---	<0.8	<0.11	<1.1	<1.9
	03/27/19	<5.4	108	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/19/19	9.7 J	62.8	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/15/22	<8.3	70	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
MW-18	03/28/19	11.2 J	102	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	9.7 J	97.3	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/15/22	<8.3	59.3	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
MW-19	03/28/19	<5.4	173	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/20/19	16.0 J	173	<1.3	<2.5	---	<6.4	<0.084	<12.3	<3.2
	06/16/22	<8.3	115	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
TW-20	02/02/22	<41.7	1,960	181	<12.7	---	<29.6	<0.066	<61.2	<16.0
	06/16/22	---	---	---	4.5 J	<73	---	---	---	---
TW-21	02/02/22	<8.3	98.5	<1.3	3.7 J	---	<5.9	<0.066	<12.2	<3.2
TW-22	02/02/22	<8.3	260	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
TW-23	02/02/22	<8.3	173	1.7 J	3.1 J	---	<5.9	<0.066	<12.2	<3.2
TW-24	02/02/22	<16.7	127	<2.7	33.0	---	<11.8	<0.066	<24.5	<6.4
TW-25	02/02/22	<83.4	67.8	<13.3	<25.5	---	<59.1	<0.066	<122	<32.0
TW-26	06/15/22	<41.7	187	<6.6	<12.7	---	<29.6	<0.066	<61.2	<16.0
TW-27	06/15/22	<8.3	918	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2
TW-28	06/15/22	<8.3	60.2	<1.3	<2.5	---	<5.9	<0.066	<12.2	<3.2

Key:
J - Analyte detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation
NE - Not established by Chapter NR 140 Wis. Adm. Code
µg/L - Micrograms per liter
--- - Not analyzed
15 - Exceeds Chapter NR 140 Enforcement Standard
1.5 - Exceeds Chapter NR 140 Preventive Action Limit
NS - No sample collected because water in the well was frozen on this date

Table A.1.c Groundwater Analytical Results
 Jagemann Plating Co., Inc.
 1324 S. 26th Street; Manitowoc, WI

Parameters	CAS Number	Cycle 10 & 11 Recommended Ch. NR 140 ES	Cycle 10 & 11 Recommended Ch. NR 140 PAL	MW-1	MW-2	MW-3	PZ-3	MW-4	PZ-4	MW-5	MW-6	MW-7	MW-8	PZ-13	PZ-16	MW-14	MW-17	MW-18	MW-19	Sump 1	
				12/09/21	12/08/21	12/08/21	12/08/21	6/14/22	6/14/22	12/08/21	6/14/22	6/14/22	12/09/21	12/08/21	6/15/22	12/09/21	6/15/22	6/15/22	12/08/21	6/14/22	
Perfluoroalkyl & Polyfluoroalkyl Substances (PFAS) Results (ng/L)																					
<i>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</i>																					
Perfluoro-n-butanoic acid (PFBA)	375-22-4	10,000	2,000	16	49	27	ND	12	ND	5.1	9.5	27	14	ND	10	25	19	15	4.6	11	
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	---	---	11	23	49	ND	1.5 J	ND	ND	1.3 J	10	4.5	ND	9.7	18	4.7	9	2.6 J	12	
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	150,000	30,000	16	5.7	20	ND	2.2	ND	ND	1.2 J	6.3	7.9	ND	3.5	52	2.8	6.5	1.9 J	10	
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	---	---	6.7	5.1	7.3 J	ND	1.8 J	ND	0.57 J	0.58 J	3.2	5.9	ND	1.5 J	26	2.6	7.9	0.63 J	5.4	
Perfluoro-n-octanoic acid (PFOA)	335-67-1	20*	2*	20	12	17	0.85 J	3.9	ND	4.3	3	11	19	ND	1.8 J	97	4.5	26	2.9 J	11	
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	30	3	0.83 J	0.69 J	ND	ND	0.81 J	ND	ND	ND	ND	ND	ND	ND	0.70 J	3.1	ND	ND	1.8 J	
Perfluoro-n-decanoic acid (PFDA)	335-76-2	300	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	ND	ND	1.3 J	
Perfluoro-n-undecanoic acid (PFUnDA)	2058-94-8	3,000	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-tridecanoic acid (PFTriDA)	72629-94-8	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	10,000	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</i>																					
Perfluoro-1-butananesulfonic acid (PFBS)	375-73-5	450,000	90,000	760	280	170	0.55 J	4.9	0.67 J	3.8	9.3	240 D	110	ND	27	180	230 D	28	6.9	130 D	
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	---	---	48	5	11 J	ND	ND	ND	ND	ND	3	53	ND	ND	86	ND	9.2	0.62 J	4.9	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	40	4	120	21	51	ND	ND	ND	1.4 J	ND	15	190	ND	ND	350	1.5 J	51	0.95 J	18	
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	---	---	20	4.4	14 J	ND	ND	ND	ND	ND	2.6	25	ND	ND	120	0.42 J	7.2	ND	7.4	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	20*	2*	1,100	300	1,000	9.2	32	0.86 J	5	0.77 J	88	650	ND	2.7	5,200	200 D	140	ND	860 D	
Perfluoro-1-nonesulfonic acid (PFNS)	68259-12-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	ND	ND	ND	
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</i>																					
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7 J	ND	
N-methylperfluoro-1-octanesulfonamide (MeFOA)	31506-32-8	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-ethylperfluoro-1-octanesulfonamide (EtFOA)	4151-50-2	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Fluorotelomer Substances (FTS)</i>																					
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	---	---	ND	17	19 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	2.1	ND	1.7 J	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Replacement Chemicals</i>																					
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	300	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,8-dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	3	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PFOA and PFOS		20*	2*	1,120	312	1,017	10.05	35.9	0.86	9.3	3.77	99	669	ND	4.5	5,297	204.5	166	2.9 J	871	
Total EtFOSE, EtFOA, and EtFOAA		20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Key/Notes:

WI DNR PFAS List - 33 Compounds laboratory analysis was completed using Modified USEPA Method 537
 * = Wisconsin Department of Health Services recommends a combined standard for EtFOSE, EtFOA, and EtFOAA; and PFOS and PFOA.
 ng/L = nanogram per liter
 J = Results were below the calibration range
 D = Results were taken from secondary dilutions of the sample extracts to bring results within calibration range
 I = Incorrect isotope ratios were obtained
 Q = Surrogate failure
 --- = No Recommendations by WDNR for a Ch. 140 PAL or ES standard
 ND = Not Detected

Highlighted bold values exceed the current recommended Ch. NR 140 Enforcement Standards (ES) for individual and/or combined values
 Underlined bold values exceed the current recommended Ch. NR 140 Preventive Action Limits (PAL) for individual and/or combined values

Table A.1.c Groundwater Analytical Results
 Jagemann Plating Co., Inc.
 1324 S. 26th Street; Manitowoc, WI

Parameters	CAS Number	Cycle 10 & 11 Recommended Ch. NR 140 ES	Cycle 10 & 11 Recommended Ch. NR 140 PAL	TW-20	TW-21	TW-22	TW-23	TW-24	TW-25	TW-26	TW-27	TW-28	Trip Blank	FBR (Field Reagent Blank)		
				2/02/22	2/02/22	2/02/22	2/02/22	2/02/22	2/02/22	6/15/22	6/15/22	6/15/22		12/09/21	12/09/21	2/02/22
Perfluoroalkyl & Polyfluoroalkyl Substances (PFAS) Results (ng/L)																
<i>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</i>																
Perfluoro-n-butanoic acid (PFBA)	375-22-4	10,000	2,000	ND	11 J	31	37	2.5 J	8.5	9.8	21	18	ND	ND	ND	ND
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	---	---	ND	ND	14	120	4.4	6.6	21.0	4.2	6.3	ND	ND	ND	ND
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	150,000	30,000	ND	ND	14	35	5.5	11	20	2.5	3.7	ND	ND	ND	ND
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	---	---	2.7 J	8.4 J	8.7	39	3.1 J	17	19	1.9 J	2.4	ND	ND	ND	ND
Perfluoro-n-octanoic acid (PFOA)	335-67-1	20*	2*	<u>10</u>	53 J	31	24	15	14	71	9.8	13	ND	ND	ND	ND
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	30	3	ND	ND	ND	<u>5.2</u>	2.9 J	ND	6.7	ND	ND	ND	ND	ND	ND
Perfluoro-n-decanoic acid (PFDA)	335-76-2	300	60	ND	ND	ND	1.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-undecanoic acid (PFUnDA)	2058-94-8	3,000	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-tridecanoic acid (PFTDA)	72629-94-8	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	10,000	2,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<i>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</i>																
Perfluoro-1-butanedisulfonic acid (PFBS)	375-73-5	450,000	90,000	110	130	310	50	38	170	94	100	140	ND	ND	ND	ND
Perfluoro-1-pentadisulfonic acid (PFPeS)	2706-91-4	---	---	ND	32 J	20	6.6	6.5	11	7.6	5.2	4.2	ND	ND	ND	ND
Perfluorohexadisulfonic acid (PFHxS)	355-46-4	40	4	<u>11</u>	160	54	75	34	30	93	10	14	ND	ND	ND	ND
Perfluoro-1-heptadisulfonic acid (PFHpS)	375-92-8	---	---	1.0 J	78	5.1	52	30	1.2 J	38	1.1 J	1.2 J	ND	ND	ND	ND
Perfluorooctadisulfonic acid (PFOS)	1763-23-1	20*	2*	57	3,800	95	7,500	3,500	57	210 D	19	25	ND	ND	ND	ND
Perfluoro-1-nonesulfonic acid (PFNS)	68259-12-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluoro-1-decane sulfonic acid (PFDS)	335-77-3	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorododecane sulfonic acid (PFDOS)	79780-39-5	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<i>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</i>																
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<i>Fluorotelomer Substances (FTS)</i>																
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	---	---	2.0 J	ND	ND	41	16	8.2 J	34 I	ND	ND	ND	ND	ND	ND
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	---	---	ND	ND	ND	3.9 JQ	3.7 J	ND	5.5	ND	ND	ND	ND	ND	ND
<i>Replacement Chemicals</i>																
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	300	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,8-dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	3	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PFOA and PFOS		20*	2*	67	3,853	126	7,524	3,515	71	281	28.8	38	ND	ND	ND	ND
Total EtFOSE, EtFOSA, and EtFOSAA		20*	2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Key/Notes:

WI DNR PFAS List - 33 Compounds laboratory analysis was completed using Modified USEPA Method 537
 * = Wisconsin Department of Health Services recommends a combined standard for EtFOSE, EtFOSA, and EtFOSAA; and PFOS and PFOA.
 ng/L = nanogram per liter
 J = Results were below the calibration range
 D = Results were taken from secondary dilutions of the sample extracts to bring results within calibration range
 I = Incorrect isotope ratios were obtained
 Q = Surrogate failure
 --- = No Recommendations by WDNR for a Ch. 140 PAL or ES standard
 ND = Not Detected
 Highlighted bold values exceed the current recommended Ch. NR 140 Enforcement Standards (ES) for individual and/or combined values
 Underlined bold values exceed the current recommended Ch. NR 140 Preventive Action Limits (PAL) for individual and/or combined values

Table A.2.a Soil Analytical Results Table
Jagemann Plating Co., Inc.
1324 S 26th Street, Manitowoc, WI

Sample ID & Depth (in Feet)	Date Sampled	VOC Laboratory Analytical Results (µg/kg)																																
		Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	tert-Butylbenzene	sec-Butylbenzene	n-Butylbenzene	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,4-Dichlorobenzene	1,3-Dichlorobenzene	1,2-Dichlorobenzene	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethane	trans-1,2-Dichloroethene	1,2-Dichloropropane	2,2-Dichloropropane		
Industrial Direct Contact RCL		7,070	679,000	906,000	1,830	113,000	43,000	183,000	145,000	108,000	4,030	761,000	NE	1,980	669,000	907,000	253,000	92	38,900	NE	143,000	16,400	297,000	376,000	530,000	2,870	22,200	1,190,000	2,340,000	1,850,000	1,780	191,000		
Non-Industrial Direct Contact RCL		1,600	342,000	216,000	418	25,400	9,600	183,000	145,000	108,000	916	370,000	NE	454	159,000	907,000	253,000	8	8,280	NE	34,000	3,740	297,000	376,000	126,000	652	5,060	320,000	156,000	1,560,000	406	191,000		
Groundwater Pathway RCL		5.1	NE	NE	0.3	2.3	5.1	NE	NE	NE	3.9	NE	226.6	3.3	15.5	NE	NE	0.2	32	0.0282	NE	144	1,152.8	1,168	3,086.3	2.8	483.4	5	41.2	62.6	3.3	NE		
B-1 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
B-2 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-3 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-3 (6 - 8)*	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-4 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-4 (6 - 8)*	9/21/2010	<250	<250	<250	<250	<259	<250	<404	<250	<250	<250	<250	<250	<250	<250	<250	<250	<823	<250	<250	<250	<444	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
B-5 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-6 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-7 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-8 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PZ-4 (2 - 4')	5/3/2011	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
MW-5 (2 - 4')	5/3/2011	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
MW-6 (2 - 4')	5/3/2011	<25	<25	<25	<25	<25.9	<25	<40.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<82.3	<25	<25	<25	<44.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
B-9 (2.5 - 4.5')	5/7/2013	<9.2	<13	---	<27	<30	---	<26	<41	<20	<25	<16	<42	<49	<181	<16	<14	<48	<14	<20	---	<38	<30	<33	<57	<19	<36	<21	<24	<29	<9.5	<21	<21	
B-10 (2.5 - 4.5')	5/7/2013	<9.2	<13	---	<27	<30	---	<26	<41	<20	<25	<16	<42	<49	<181	<16	<14	<48	<14	<20	---	<38	<30	<33	<57	<19	<36	<21	<24	<29	<9.5	<21	<21	
B-11 (2.5 - 4.5')	5/7/2013	<9.2	<13	---	<27	<30	---	<26	<41	<20	<25	<16	<42	<49	<181	<16	<14	<48	<14	<20	---	<38	<30	<33	<57	<19	<36	<21	<24	<29	<9.5	<21	<21	
B-12 (2 - 4)*	6/5/2013	<9.2	<13	---	<27	<30	---	<26	<41	<20	<25	<16	<42	<49	<181	<16	<14	<48	<14	<20	---	<38	<30	<33	<57	<19	<36	<21	<24	<29	<9.5	<21	<21	
B-13 (2.5 - 4.5)*	11/8/2016	<16	<39	---	<15	<23	---	2,720	1,340	<35	<21	<39	<45	<26	<250	<29	<32	<78	<31	<35	---	<39	<30	<30	<43	<25	<30	<29	<94	43 J	<25	<31		
B-16 (2.5 - 4.5)*	11/8/2016	<16	<39	---	<15	<23	---	<86	<36	<35	<21	<390	<45	<26	<250	<29	<32	<78	<31	<35	---	<39	<30	<30	<43	<25	<30	<29	<21	<24	<25	<31		
B-18 (2.5 - 4.5)*	8/15/2018	<30	<25	---	<29	<26	---	<40	<33	<26	<16	<13	<91	<35	<76	<15	<18	<58	<25	<23	---	<28	<37	<37	<48	<34	<38	<22	<32	<28	<35	<25		
B-19 (5 - 7)*	8/15/2018	<30	<25	---	<29	<26	---	<40	<33	<26	<16	<13	<91	<35	<76	<15	<18	<58	<25	<23	---	<28	<37	<37	<48	<34	<38	<22	<32	<28	<35	<25		
B-20 (0 - 4')	1/9/2022	<445	<729	<512	<445	<8,220	<2,620	<587	<456	<856	<411	<224	<788	<1,340	<710	<605	<710	<1,450	<6,390	<512	<553	<512	<512	<579	<803	<430	<478	<620	<41,600	<649 J	<445	<504		
B-20 (6 - 8)*	1/9/2022	<215	<352	<247	<215	<3,970	<1,270	<284	<220	<414	<199	<108	<381	<647	<343	<293	<343	<701	<3,090	<247	<267	<247	<247	<280	<388	<208	<526 J	<889 J	<143,000	<3,930	<215	<244		
B-21 (0 - 4')	1/9/2022	<15.1	<24.7	<17.4	<15.1	<279	<88.9	<19.9	<15.5	<29.0	<13.9	<7.6	<26.8	<45.4	<24.1	<20.5	<24.1	<49.2	<217	<17.4	<18.8	<17.4	<17.4	<19.7	<27.3	<14.6	<16.2	<21.1	<159	17.0 J	<15.1	<17.1		
B-21 (6 - 8)*	1/9/2022	<17.6	<28.9	<20.3	<17.6	<326	<104	<23.3	<18.1	<33.9	<16.3	<8.9	<31.3	<53.0	<28.2	<24.0	<28.2	<57.5	<253	<20.3	<21.9	<20.3	<20.3	<23.0	<31.9	<17.0	<19.0	<98.4	<8,950	<2,740	<17.6	<20.0		
B-22 (0 - 4')	1/9/2022	<19.0	<31.1	<21.8	<19.0	<351	<112	<25.0	<19.5	<36.5	<17.5	<9.6	<33.6	<57.1	<30.3	<25.8	<30.3	<61.9	<273	<21.8	<23.6	<21.8	<21.8	<24.7	<34.3	<18.3	<20.4	<26.5	<17.1	<17.2	<19.0	<21.5		
B-22 (6 - 8)*	1/9/2022	<18.1	<29.6	<20.8	<18.1	<334	<106	<23.8	<18.5	<34.7	<16.7	<9.1	<32.0	<54.3	<28.8	<24.6	<28.8	<58.9	<259	<20.8	<22.5	<20.8	<20.8	<23.5	<32.6	<17.4	<19.4	<25.2	<247	48.9 J	<18.1	<20.5		
B-23 (0 - 4')	1/9/2022	<17.7	<29.0	<20.4	<17.7	<327	<104	<23.3	<18.1	<34.0	<16.4	<8.9	<31.4	<53.2	<28.2	<24.1	<28.2	<57.7	<254	<20.4	<22.0	<20.4	<20.4	<23.0	<32.0	<17.1	<19.0	<24.7	18.8 J	<16.1	<17.7	<20.1		
B-23 (6 - 8)*	1/9/2022	<15.9	<26.0	<18.3	<15.9	<293	<93.4	<20.9	<16.3	<30.5	<14.7	<8.0	<28.1	<47.7	<25.3	<21.6	<25.3	<51.7	<228	<														

Table A.2.a Soil Analytical Results Table
Jagemann Plating Co., Inc.
1324 S 26th Street, Manitowoc, WI

Sample ID & Depth (in Feet)	Date Sampled	VOC Laboratory Analytical Results (µg/kg)																												
		1,3-Dichloropropane	1,1-Dichloropropane	cis- 1,3-Dichloropropene	trans- 1,3-Dichloropropene	Di-isopropyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	Isopropylbenzene	p-Isopropyltoluene	Methyl-tert-butyl ether (MTBE)	Methylene Chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,4-Trichlorobenzene	1,2,3-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Xylenes (Total)
Industrial Direct Contact RCL		1,490,000	NE	1,210,000	1,510,000	2,260,000	35,400	7,190	NE	162,000	282,000	1,150,000	24,100	NE	867,000	3,600	12,300	145,000	818,000	113,000	934,000	640,000	7,010	8,410	1,230,000	109	219,000	182,000	2,080	260,000 (combined)
Non-Industrial Direct Contact RCL		1,490,000	NE	1,210,000	1,510,000	2,260,000	8,020	1,630	NE	162,000	63,800	61,800	5,520	NE	867,000	810	2,780	33,000	818,000	24,000	62,600	640,000	1,590	1,300	1,230,000	5	219,000	182,000	67	260,000 (combined)
Groundwater Pathway RCL		0.3	NE	0.3 (combined)	NE	1,570	NE	NE	NE	27	2.6	658.2	NE	220	0.2	53.4	4.5	1,107.2	408	NE	140.2	3.2	3.6	NE	51.9	1,378 (combined)	0.1	3,960 (combined)		
B-1 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,470	<25	<25	<25	<25	<25	<75
B-2 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	2,220	<25	<25	<25	<25	828	<75
B-3 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	128	<25	<25	<25	<25	953	<75
B-3 (6 - 8)*	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	89.4	<25	<25	<25	<25	1,480	<75
B-4 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	5,550	<25	<25	<25	<25	212	<75
B-4 (6 - 8)*	9/21/2010	<250	<250	<250	<250	<250	<26.4	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	527 J	<250	<250	<250	<250	1,140	<750
B-5 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	255	<25	<25	<25	<25	1,320	<75
B-6 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	278	<25	<25	<25	<25	<25	<75
B-7 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-8 (0 - 4')	9/21/2010	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	115	<25	<25	<25	<25	<25	<25	1,380	<25	<25	<25	<25	<25	<75
PZ-4 (2 - 4')	5/3/2011	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
MW-5 (2 - 4')	5/3/2011	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
MW-6 (2 - 4')	5/3/2011	<25	<25	<25	<25	<25	<26.4	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<75
B-9 (2.5 - 4.5')	5/7/2013	<46	---	---	---	<11	<10	<95	<25	<31	<57	<30	<114	<24	---	<23	<12	<49	<20	<129	<79	<38	<23	<28	<86	---	<26	<26	<21	<99
B-10 (2.5 - 4.5')	5/7/2013	<46	---	---	---	<11	<10	<95	<25	<31	<57	<30	<114	<24	---	<23	<12	<49	<20	<129	<79	<38	<23	<28	<86	---	<26	<26	<21	<99
B-11 (2.5 - 4.5')	5/7/2013	<46	---	---	---	<11	<10	<95	<25	<31	<57	<30	<114	<24	---	<23	<12	<49	<20	<129	<79	<38	<23	94	<86	---	29 J	<26	<21	<99
B-12 (2 - 4)*	6/5/2013	<46	---	---	---	<11	<10	<95	<25	77 J	<57	<30	<114	<24	---	<23	<12	<49	29 J	<129	<79	<38	<23	580	<86	---	<26	<26	190	<99
B-13 (2.5 - 4.5)*	11/8/2016	<100	---	---	---	<12	46 J	<110	197	1,000	<220	<25	510	620	---	<29	<13	<54	<13	<120	<85	<40	<33	105 J	<60	---	4,200	2,710	54	241 J
B-16 (2.5 - 4.5)*	11/8/2016	<100	---	---	---	<12	<27	<110	<37	<56	<220	<25	<87	<35	---	<29	<13	<54	<31	<120	<85	<40	<33	<42	<60	---	<78	<89	<10	<99
B-18 (2.5 - 4.5)*	8/15/2018	---	---	<39	<22	<10	<35	<85	<34	<29	<150	<50	<94	<33	---	<28	<28	<32	<32	<66	<64	<30	<33	<41	<41	---	<25	<32	<19	<116
B-19 (5 - 7)*	8/15/2018	---	---	<39	<22	<10	<35	<85	<34	<29	<150	<50	<94	<33	---	<28	<28	<32	<32	<66	<64	<30	<33	<41	<41	---	<25	<32	<19	<116
B-20 (0 - 4')	1/9/2022	<407	<605	<1,230	<5,340	<463	<445	<3,710	<504	<568	<549	<519	<583	<448	<478	<676	<448	<725	<471	<1,540	<2,080	<478	<680	109,000	<542	<908	<557	<602	7,360	<1,348
B-20 (6 - 8)*	1/9/2022	<197	<293	<596	<2,580	<224	<215	<1,800	<244	<275	<265	<251	<282	<217	<231	<327	<217	<350	<228	<744	<1010	<231	<329	50,000	<262	<439	<269	<291	21,300	<652
B-21 (0 - 4')	1/9/2022	<13.8	<20.5	<41.8	<181	<15.7	<15.1	<126	<17.1	<19.3	<18.6	<17.6	<19.8	<15.2	<16.2	<23.0	<15.2	<24.6	<16.0	<52.2	<30.8	<16.2	<23.1	164	<18.4	<30.8	<18.9	<20.4	228	<45.8
B-21 (6 - 8)*	1/9/2022	<16.2	<24.0	<48.9	<212	<18.4	<17.6	<147	<20.00	<22.5	<21.8	<20.6	<23.1	<17.8	<19.0	<26.8	<17.8	<28.7	<18.7	<61.0	<82.5	<19.0	<27.0	19,200	<21.5	<36.0	<22.1	<23.9	550	<53.5
B-22 (0 - 4')	1/9/2022	<17.4	<25.8	<52.6	<228	<19.8	<19.0	<159	<21.5	<24.2	<23.4	<22.2	<24.9	<19.1	<20.4	<28.9	<19.1	<30.9	<20.1	<65.7	<88.8	<20.4	<29.0	<29.8	<23.1	<38.7	<23.8	<25.7	<16.1	<49.7
B-22 (6 - 8)*	1/9/2022	<16.5	<24.6	<50.1	<217	<18.8	<18.1	<151	<20.5	<23.1	<22.3	<21.1	<23.7	<18.2	<19.4	<27.5	<18.2	<29.4	<19.1	<62.5	<84.5	<19.4	<27.6	253	<22.0	<36.9	<22.6	<24.4	274	<54.8
B-23 (0 - 4')	1/9/2022	<16.2	<24.1	<49.1	<213	<18.4	<17.7	<148	<20.1	<22.6	<21.9	<20.7	<23.2	<17.8	<19.0	<26.9	<17.8	<28.8	<18.7	<61.3	<82.8	<19.0	<27.1	35.3 J	<21.6	<36.1	<22.2	<23.9	59.1 J	<53.7
B-23 (6 - 8)*	1/9/2022	<14.5	<21.6	<44.0	<191	<16.5	<15.9	<132	<18.0	<20.3	<19.6	<18.5	<20.8	<16.0	<17.1	<24.1	<16.0	<25.9	<16.8	<54.9	<74.2	<17.1	<24.3	4,700	<19.3	<32.4	<19.9	<21.5	77.3	<48.1
B-24 (0 - 4')	1/9/2022	<15.0	<22.3	<45.5	<197	<17.1	<16.4	<137	<18.6	<20.9	<20.3	<19.2	<21.5	<16.5	<17.6	<24.9	<16.5	<26.7	<17.4	<56.8	<76.7	<17.6	<25.1	<25.8	<20.0	<33.5	<20.5	<22.2	<13.9	<48.9
B-24 (6 - 8)*	1/9/2022	<346	<514	<1,050	<4,530	<393	<377	<3,150	<428	<482	<466	<441	<495	<381	<406	<574	<381	<615	<400	<1,310	<1,770	<406	<577	199,000	<460	<771	<472	<511	762 J	<1,145
B-25 (0 - 4')	1/9/2022	<14.4	<21.5	<43.7	<189	<16.4	<15.8	<132	<17.9	<20.1	<19.5	<18.4	<20.7	<15.9	<17.0															

A.2.b Soil Analytical Results Table
Jagemann Plating Co., Inc.
1324 S 26th Street, Manitowoc, WI

Sample ID & Depth (In Feet)	Date Sampled	Metals Laboratory Analytical Results (mg/kg)								
		Arsenic	Barium	Cadmium	Chromium	Hexavalent Chromium	Lead	Mercury	Selenium	Silver
Industrial Direct Contact RCL		3	100,000	985	100,000	6.36	800	3.13	5,840	5,840
Non-Industrial Direct Contact RCL		0.677	15,300	71.1	100,000	---	400	3.13	391	391
Groundwater Pathway RCL		0.584	164.8	0.752	NE	0.301	27	0.208	0.52	0.8491
Background Threshold Value (BTV)		8	364	1	NE	---	52	NE	NE	NE
B-1 (0 - 4)	9/21/2010	<u>3.2</u> B	83.4	0.45 J	29.2	<0.062	9.2	0.017	0.42 J	<0.054
B-2 (0 - 4)	9/21/2010	<u>2.1</u> B	73.7	<u>1.1</u>	21.1	<0.033	10.6	0.027	0.65 J	0.076
B-3 (0 - 4)	9/21/2010	<u>2.8</u> B	48.3	<u>3.9</u>	17.6	<0.028	<u>8.2</u>	0.019	0.28 J	<0.046
B-3 (6 - 8)*	9/21/2010	<u>4.3</u> B	99.1	0.48 J	25.5	<0.049	7.4	0.021	0.39 J	<0.053
B-4 (0 - 4)	9/21/2010	<u>2.6</u> B	53.3	0.39 J	49.9	<0.037	6.8	0.022	0.26 J	<0.050
B-4 (6 - 8)*	9/21/2010	<u>2.8</u> B	102	0.55	27.5	<0.049	6.4	0.019	0.22 J	<0.048
B-5 (0 - 4)	9/21/2010	<u>3.1</u> B	79.3	0.71	33.1	<0.062	15	0.04	0.37 J	<0.051
B-6 (0 - 4)	9/21/2010	<u>2.8</u> B	35	<u>0.98</u>	20.6	<0.046	13.9	0.042	0.42 J	<0.047
B-7 (0 - 4)	9/21/2010	<u>2.2</u> B	24.3	<u>0.86</u>	8.5	<0.048	8.5	0.014	0.42 J	0.044 J
B-8 (0 - 4)	9/21/2010	<u>5.4</u> B	65	<u>1.3</u>	19.2	<0.040	23.8	0.047	0.85 J	0.060 J
PZ-4 (2 - 4)	5/3/2011	<u>4.6</u> B	99.8	0.20 J	30.6	---	7.2	0.024	<0.18	0.11 J
MW-5 (2 - 4)	5/3/2011	<u>2.4</u> B	66.1	0.17 J	23	---	6.6	0.014	0.24 J	0.11 J
MW-6 (2 - 4)	5/3/2011	<u>3.6</u> B	74.4	0.33 J	21.4	---	<u>20.4</u>	0.043	0.46 J	0.090 J
B-9 (2.5 - 4.5)	5/7/2013	<u>1.18 J</u> B	60	<0.08	25.9	---	9.74	0.048	<0.7	<0.34
B-10 (2.5 - 4.5)	5/7/2013	<0.72	63.3	<0.08	24.1	---	5.89	0.037	<0.7	<0.34
B-11 (2.5 - 4.5)	5/7/2013	<0.72	54.4	<0.08	36.1	---	8.43	0.029	<0.7	<0.34
B-12 (2 - 4)*	6/5/2013	<u>1.20 J</u> B	54.8	<u>1.35</u>	22.6	---	10.8	0.0695	<u>1.78 J</u>	<0.34
B-13 (2.5 - 4.5)*	11/8/2016	<0.67	84.3	<u>2.39</u>	324	---	<u>220</u>	0.0729	<u>1.07 J</u>	<0.44
B-16 (2.5 - 4.5)*	11/8/2016	<0.67	74.6	<0.8	22.8	---	2.21	0.0265 J	<0.55	<0.44
B-18 (2.5 - 4.5)*	8/15/2018	<0.33	89.9	0.706	31.6	---	7.86	0.040 J	<u>0.827 J</u>	<0.57
B-19 (5 - 7)*	8/15/2018	<u>1.49 J</u> B	90.2	<u>1.13</u>	37.4	---	9.27	<0.019	<0.52	<0.57
B-20 (0 - 4)	1/9/2022	<3.6	110	<0.33	40.7	---	9.6	0.045	<3.2	<0.76
B-20 (6 - 8)*	1/9/2022	<u>3.1</u> B	110	0.34 J	35.2	---	9.1	0.027 J	<1.6	<0.37
B-21 (0 - 4)	1/9/2022	<1.6	13.7	<u>0.0</u>	17.0	---	4.3	0.034 J	<1.4	<0.33
B-21 (6 - 8)*	1/9/2022	<u>3.2</u> B	75.6	0.29 J	29.3	---	8.4	0.026 J	<1.6	0.49 J
B-22 (0 - 4)	1/9/2022	<u>2.2 J</u> B	101	<u>0.81</u> B	44.7	---	13.1	0.049	<1.6	<0.39
B-22 (6 - 8)*	1/9/2022	<u>2.8 J</u> B	103	0.26 J	34.3	---	8.3	0.038 J	<1.6	0.45 J
B-23 (0 - 4)	1/9/2022	<1.7	13.6	0.58 J	24.4	---	4.8	0.030 J	<1.5	<0.36
B-23 (6 - 8)*	1/9/2022	<u>2.4 J</u> B	61	<u>0.78</u> B	37.6	---	6.2	<0.011	<1.5	<0.36
B-24 (0 - 4)	1/9/2022	<u>2.9 J</u> B	9.9	<0.16	8.4	---	2.1 J	<0.011	<1.6	<0.36
B-24 (6 - 8)*	1/9/2022	<u>4.8</u> B	75.5	0.32 J	31.4	---	8.4	<0.013	<1.7	<0.39
B-25 (0 - 4)	1/9/2022	<7.9	49.5	<0.72	20.1	---	6.3 J	<0.011	<7.1	<1.7
B-25 (6 - 8)*	1/9/2022	<u>4.0</u> B	99.7	0.37 J	40.9	---	8.9	0.016 J	<1.5	<0.36
B-26 (0 - 4)	6/2/2022	<u>2.3 J</u> B	48.9	0.29 J	36.2	---	4.8	0.012 J	<1.5	<0.35
B-26 (6 - 8)*	6/2/2022	<u>4.1</u> B	82.2	<0.17	23.7	---	6.6	<0.012	<1.7	<0.39
B-27 (0 - 4)	6/2/2022	<u>3.6</u> B	91.2	0.49 J	27.1	---	11.3	0.033 J	<1.5	0.38 J
B-27 (6 - 8)*	6/2/2022	<u>5.4</u> B	116.0	0.22 J	31.5	---	9.0	<0.012	<1.5	0.37 J
B-28 (0 - 4)	6/2/2022	<u>2.5 J</u> B	29.8	0.39 J	9.0	---	23.3	<0.011	<1.4	<0.33
B-28 (6 - 8)*	6/2/2022	<u>2.0 J</u> B	86.5	0.17 J	34.5	---	9.7	0.078	<1.6	<0.38

Key:
B - Concentrations are below the BTV, thus are not considered an exceedance of the direct contact and/or groundwater pathway RCLs
J - Analyte detected between the Laboratory Limit of Detection and Laboratory Limit of Quantitation
NE - Not included on WDNR's RR Program RCL Spreadsheet (December 2018)
RCL - Residual Contaminant Level per Chapter NR 720 Wis. Adm. Code
mg/kg - Milligrams per kilogram
--- - Not Analyzed
* - Soil sample collected below the observed historic low water table (i.e., saturated soil)

400	- Exceeds Non-Industrial Direct Contact RCL
800	- Exceeds Industrial Direct Contact RCL
<u>27</u>	- Exceeds Groundwater Pathway RCL

Table A.2.c Soil Analytical Results
Jagemann Plating Co., Inc.
1324 S 26th Street, Manitowoc, Wisconsin

Sample ID & Depth (In Feet)	CAS Number	Non-Industrial Direct Contact RCL	Industrial Direct Contact RCL	B-20 (0-4')	B-20 (6-8)*	B-21 (0-4')	B-21 (6-8)*	B-22 (0-4')	B-22 (6-8)*	B-23 (0-4')	B-23 (6-8)*	B-24 (0-4')	B-24 (6-8)*	B-25 (0-4')	B-25 (6-8)*	B-26 (0-4')	B-26 (6-8)*	B-27 (0-4')	B-27 (6-8)*	B-28 (0-4')	B-28 (6-8)*	
				Date	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	1/09/22	6/02/22	6/02/22	6/02/22	6/02/22
Perfluoroalkyl & Polyfluoroalkyl Substances (PFAS) Results (ug/kg)																						
<i>Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)</i>																						
Perfluoro-n-butanoic acid (PFBA)	375-22-4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-octanoic acid (PFOA)	335-67-1	1,260	16,400	ND	ND	ND	0.24 J	1.1 J	ND	ND	ND	ND	0.54 J	ND	ND	0.048 J	0.043 J	0.059 IJ	0.054 J	ND	0.044 J	
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035 J	ND	ND	ND	ND	ND	
Perfluoro-n-decanoic acid (PFDA)	335-76-2	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-undecanoic acid (PFUnDA)	2058-94-8	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-tridecanoic acid (PFTDA)	72629-94-8	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)</i>																						
Perfluoro-1-butanedisulfonic acid (PFBS)	375-73-5	NE	NE	ND	ND	ND	ND	0.15 J	ND	ND	ND	ND	0.17 J	ND	ND	ND	ND	ND	ND	0.057 J	ND	0.098 I
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NE	NE	ND	ND	ND	1.2	1.1 J	0.19 J	ND	ND	ND	3.7	ND	ND	0.026 J	0.053 J	ND	0.038 J	ND	0.053 J	
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	NE	NE	ND	ND	ND	ND	0.63 J	ND	ND	ND	ND	0.79 J	ND	ND	0.034 J	0.034 J	ND	ND	ND	ND	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	1,260	16,400	1.0 J	ND	2.9	1.3	42.0	7.0	40	24	5.3	42	3.4	ND	2.1	ND	0.087 J	0.14	0.48	0.54	
Perfluoro-1-nonesulfonic acid (PFNS)	68259-12-1	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)</i>																						
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<i>Fluorotelomer Substances (FTS)</i>																						
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	757124-72-4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	27619-97-2	NE	NE	ND	ND	ND	ND	ND	ND	0.67 J	ND	ND	ND	ND	ND	0.039 J	ND	ND	ND	ND	ND	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)	39108-34-4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.096	0.042 J	ND	ND	ND	ND	
<i>Replacement Chemicals</i>																						
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
11-chloroicosadecafluoro-3-oxadecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Key/Notes:
 WI DNR PFAS List - 33 Compounds laboratory analysis was completed using Modified USEPA Method 537
 ug/kg = micrograms per kilogram
 RCL = Residual Contaminant Level per Chapter NR 720, Wis. Adm. Code
 I = Interference Present; incorrect isotope ratios were obtained
 J = Analyte detected between the Laboratory Method Detection Limit and Laboratory Limit of Quantitation (results below calibration range)
 Highlighted value exceeds the Industrial Direct Contact RCL
 Underlined Italics values exceeds Non-Industrial Direct Contact RCL
 Bold indicates laboratory detections
 NE = Not Included on WDNr's RR Program RCL Spreadsheet (December 2018)
 ND = Not Detected
 * = Soil sample collected below the historic low water table (i.e., saturated soil)

**Table A.6 - Water Level Elevations
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI**

Well:	MW-1
Screen Interval:	3-13 feet
Ground Surface Elevation:	638.61
Riser Pipe Elevation:	638.26

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
10/15/10	4.29	4.64	633.97
06/15/11	3.81	4.16	634.45
09/29/11	3.76	4.11	634.50
07/31/13	3.35	3.70	634.91
03/31/14	3.70	4.05	634.56
12/09/16	3.10	3.45	635.16
12/29/16	2.75	3.10	635.51
03/27/19	2.84	3.19	635.42
06/19/19	3.04	3.39	635.22
06/23/21	4.02	4.37	634.24
12/09/21	3.42	3.77	634.84
03/25/22	2.92	3.27	635.34
06/14/22	3.16	3.51	635.10

Well:	MW-2
Screen Interval:	3-13 feet
Ground Surface Elevation:	637.88
Riser Pipe Elevation:	637.56

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
10/15/10	3.21	3.41	634.60
06/15/11	1.78	1.98	636.03
09/29/11	1.68	1.88	636.13
07/31/13	2.12	2.32	635.69
03/31/14	3.42	3.62	634.39
12/09/16	1.97	2.20	636.08
12/29/16	1.38	1.61	636.67
03/27/19	0.10	0.33	637.95
06/19/19	1.25	1.48	636.80
06/23/21	1.84	2.16	635.72
12/08/21	2.97	3.29	634.59
06/14/22	1.86	2.18	635.70

Note: Riser pipe was resurveyed in March 2019 and June 2021, the June 2021 elevations are listed above

Well:	MW-3
Screen Interval:	3-13 feet
Ground Surface Elevation:	638.55
Riser Pipe Elevation:	638.11

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
10/15/10	4.74	5.18	633.37
06/15/11	3.77	4.21	634.34
09/29/11	3.72	4.16	634.39
07/31/13	3.72	4.16	634.39
03/31/14	3.97	4.41	634.14
12/09/16	3.22	3.66	634.89
12/29/16	3.07	3.51	635.04
03/27/19	3.18	3.62	634.93
06/19/19	3.76	4.20	634.35
06/23/21	4.51	4.95	633.60
12/08/21	4.09	4.53	634.02
06/14/22	3.76	4.20	634.35

Well:	MW-4
Screen Interval:	3-13 feet
Ground Surface Elevation:	636.6
Riser Pipe Elevation:	636.11

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
06/15/11	2.42	2.91	633.69
09/29/11	1.56	2.05	634.55
07/31/13	2.91	3.40	633.20
03/31/14	Frozen	---	---
12/09/16	2.51	3.00	633.60
12/29/16	4.01	4.50	632.10
03/27/19	3.72	4.21	632.39
03/28/19	4.72	5.21	631.39
06/19/19	3.31	3.80	632.80
06/23/21	2.61	3.10	633.50
06/14/22	1.19	1.68	634.92

**Table A.6 - Water Level Elevations
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI**

Well:		MW-5	
Screen Interval:		3-13 feet	
Ground Surface Elevation:		636.28	
Riser Pipe Elevation:		635.89	

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
06/15/11	2.24	2.63	633.65
09/29/11	2.44	2.83	633.45
07/31/13	3.71	4.10	632.18
03/31/14	4.42	4.81	631.47
12/09/16	2.81	3.20	633.08
12/29/16	4.75	5.14	631.14
03/27/19	4.20	4.59	631.69
06/19/19	4.37	4.76	631.52
06/23/21	3.33	3.72	632.56
12/08/21	4.70	5.09	631.19
06/14/22	2.34	2.73	633.55

Well:		MW-6	
Screen Interval:		3-13 feet	
Ground Surface Elevation:		637.85	
Riser Pipe Elevation:		637.36	

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
06/15/11	5.51	6.00	631.85
09/29/11	2.49	2.98	634.87
07/31/13	2.97	3.46	634.39
03/31/14	0.97	1.46	636.39
12/09/16	2.29	2.78	635.07
12/29/16	2.41	2.90	634.95
03/27/19	1.89	2.38	635.47
06/19/19	1.96	2.45	635.40
06/23/21	2.17	2.66	635.19
06/14/22	1.65	2.14	635.71

Well:		MW-7	
Screen Interval:		3.5-13.5 feet	
Ground Surface Elevation:		639.06	
Riser Pipe Elevation:		638.80	

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
07/31/13	4.36	4.62	634.44
03/31/14	3.86	4.12	634.94
12/09/16	4.10	4.36	634.70
12/30/16	4.08	4.34	634.72
03/27/19	6.26	6.52	632.54
03/28/19	7.26	7.52	631.54
06/19/19	8.10	8.36	630.70
06/23/21	5.37	5.63	633.43
03/25/22	4.73	4.99	634.07
06/14/22	4.57	4.83	634.23

Well:		MW-8	
Screen Interval:		3.5-13.5 feet	
Ground Surface Elevation:		638.56	
Riser Pipe Elevation:		638.33	

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
07/31/13	2.65	3.03	635.70
03/31/14	3.56	3.94	634.79
12/09/16	1.92	2.30	636.43
12/29/16	1.99	2.37	636.36
03/27/19	2.11	2.49	636.24
03/28/19	3.11	3.49	635.24
06/19/19	2.34	2.72	636.01
06/23/21	3.49	3.72	634.84
12/09/21	5.45	5.68	632.88
03/25/22	4.86	5.09	633.47
06/14/22	2.72	2.95	635.61

Note: Riser pipe was resurveyed in June 2021, the new elevations are listed above

**Table A.6 - Water Level Elevations
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI**

Well:	TW-1 (Abandoned)
Screen Interval:	3.5-8.5 feet
Ground Surface Elevation:	638.82
Riser Pipe Elevation:	638.61

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
07/31/13	1.87	2.08	636.74
03/31/14	1.42	1.63	637.19

Well:	PZ-3
Screen Interval:	30-35 feet
Ground Surface Elevation:	638.47
Riser Pipe Elevation:	637.94

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
07/31/13	10.35	10.88	627.59
03/31/14	7.18	7.71	630.76
12/09/16	5.30	5.83	632.64
03/27/19	12.01	12.54	625.93
06/19/19	13.75	14.28	624.19
06/23/21	14.24	14.77	623.70
12/08/21	11.10	11.63	626.84
03/25/22	13.25	13.78	624.69
06/14/22	10.95	11.48	626.99

Well:	PZ-4
Screen Interval:	30-35 feet
Ground Surface Elevation:	636.60
Riser Pipe Elevation:	636.20

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
06/15/11	20.78	21.18	615.42
09/29/11	4.71	5.11	631.49
07/31/13	4.96	5.36	631.24
03/31/14	3.75	4.15	632.45
12/09/16	4.09	4.49	632.11
12/29/16	4.20	4.60	632.00
03/27/19	4.54	4.94	631.66
06/19/19	10.70	11.10	625.50
06/23/21	5.36	5.76	630.84
06/14/22	5.07	5.47	631.13

Well:	PZ-13
Screen Interval:	25-35 feet
Ground Surface Elevation:	638.28
Riser Pipe Elevation:	637.88

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
12/09/16	3.36	3.79	634.55
12/29/16	4.52	4.95	633.39
03/27/19	5.85	6.28	632.06
06/19/19	8.29	8.72	629.62
06/23/21	7.23	7.63	630.65
12/08/21	6.03	6.43	631.85
03/25/22	8.21	8.61	629.67
06/14/22	3.24	3.64	634.64

Note: Riser pipe was resurveyed in June 2021, the new elevations are listed above

**Table A.6 - Water Level Elevations
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI**

Well:	MW-14
Screen Interval:	3-13 feet
Ground Surface Elevation:	638.81
Riser Pipe Elevation:	638.50

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
12/09/16	2.87	3.23	635.49
12/29/16	2.49	2.85	635.87
03/27/19	2.32	2.68	636.04
06/19/19	2.66	3.02	635.70
06/23/21	2.21	2.57	636.15
12/09/21	2.92	3.28	635.44
06/14/22	2.15	2.51	636.21

Well:	MW-15
Screen Interval:	3-13 feet
Ground Surface Elevation:	638.32
Riser Pipe Elevation:	637.51

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
12/09/16	0.99	1.58	636.79
12/29/16	0.07	0.66	637.71
03/27/19	0.00	0.59	637.78
06/19/19	0.21	0.80	637.57
06/23/21	1.06	1.87	636.45
06/14/22	Damaged - water over top of riser		

Note: Riser pipe was resurveyed in June 2021, the new elevations are listed above

Well:	PZ-16
Screen Interval:	25-35 feet
Ground Surface Elevation:	638.15
Riser Pipe Elevation:	637.94

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
12/09/16	6.05	6.38	631.82
12/29/16	5.22	5.55	632.65
03/27/19	5.63	5.96	632.24
06/19/19	7.01	7.34	630.86
06/23/21	5.13	5.34	632.81
06/14/22	4.39	4.60	633.55

Note: Riser pipe was resurveyed in June 2021, the new elevations are listed above

Well:	MW-17
Screen Interval:	3-13 feet
Ground Surface Elevation:	638.12
Riser Pipe Elevation:	637.83

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
12/09/16	1.40	1.92	636.28
12/29/16	0.80	1.32	636.88
03/27/19	0.80	1.32	636.88
06/19/19	0.82	1.34	636.86
06/23/21	1.20	1.49	636.63
06/14/22	0.49	0.78	637.34

Note: Riser pipe was resurveyed in June 2021, the new elevations are listed above

**Table A.6 - Water Level Elevations
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI**

Well:	MW-18
Screen Interval:	3.5-13.5 feet
Ground Surface Elevation:	638.96
Riser Pipe Elevation:	638.97

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
08/21/18*	2.03	2.22	636.81
03/27/19	1.49	1.68	637.35
06/19/19	1.45	1.64	637.39
06/23/21	2.46	2.45	636.51
03/25/22	1.56	1.55	637.41
06/14/22	1.57	1.56	637.40

Note: Riser pipe was resurveyed in June 2021, the new elevations are listed above

Well:	MW-19
Screen Interval:	3.5-13.5 feet
Ground Surface Elevation:	638.08
Riser Pipe Elevation:	637.72

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
08/21/18*	2.31	2.64	635.48
03/27/19	Over top of riser		
06/19/19	Over top of riser		
06/23/21	1.15	1.51	636.57
12/08/21	1.23	1.59	636.49
06/14/22	Over top of riser		

Note: Riser pipe was resurveyed in June 2021, the new elevations are listed above

* - measurement collected prior to well development

Well:	TW-20
Screen Interval:	2-12 feet
Ground Surface Elevation:	638.71
Riser Pipe Elevation:	638.48

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
1/18/2022*	2.30	2.53	636.18
01/26/22	2.51	2.74	635.97
02/02/22	2.60	2.83	635.88
06/14/22	2.14	2.37	636.34

Well:	TW-21
Screen Interval:	2-12 feet
Ground Surface Elevation:	638.72
Riser Pipe Elevation:	638.49

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
01/18/22	2.60	2.83	635.89
01/26/22	3.00	3.23	635.49
02/02/22	3.25	3.48	635.24
06/14/22	1.83	2.06	636.66

**Table A.6 - Water Level Elevations
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI**

Well: TW-22
Screen Interval: 2-12 feet
Ground Surface Elevation: 638.87
Riser Pipe Elevation: 638.66

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
1/18/2022*	4.91	5.12	633.75
01/26/22	5.04	5.25	633.62
02/02/22	5.10	5.31	633.56
06/14/22	4.10	4.31	634.56

Well: TW-23
Screen Interval: 2-12 feet
Ground Surface Elevation: 638.91
Riser Pipe Elevation: 638.69

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
1/18/2022*	2.98	3.20	635.71
01/26/22	3.02	3.24	635.67
02/02/22	3.32	3.54	635.37
06/14/22	2.32	2.54	636.37

Well: TW-24
Screen Interval: 2-12 feet
Ground Surface Elevation: 638.88
Riser Pipe Elevation: 638.67

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
1/18/2022*	2.39	2.60	636.28
01/26/22	2.57	2.78	636.10
02/02/22	2.60	2.81	636.07
06/14/22	1.57	1.78	637.10

Well: TW-25
Screen Interval: 2-12 feet
Ground Surface Elevation: 638.84
Riser Pipe Elevation: 638.58

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
1/18/2022*	2.48	2.74	636.10
01/26/22	2.77	3.03	635.81
02/02/22	2.99	3.25	635.59
06/14/22	1.31	1.57	637.27

**Table A.6 - Water Level Elevations
Jagemann Plating Co., Inc
1324 S 26th Street, Manitowoc, WI**

Well:	TW-26		
Screen Interval:	2-12 feet		
Ground Surface Elevation:	638.86		
Riser Pipe Elevation:	638.55		

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
6/7/2022*	2.12	2.43	636.43
06/14/22	1.83	2.14	636.72

Well:	TW-27		
Screen Interval:	2-12 feet		
Ground Surface Elevation:	638.88		
Riser Pipe Elevation:	638.66		

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
6/7/2022*	9.83	10.05	628.83
06/14/22	8.36	8.58	630.30

Well:	TW-28		
Screen Interval:	2-12 feet		
Ground Surface Elevation:	638.86		
Riser Pipe Elevation:	638.63		

Measurement Date	Depth to Water		Groundwater Elevation
	Below Riser	Below Ground	
6/7/2022*	3.88	4.11	634.75
06/14/22	3.67	3.90	634.96

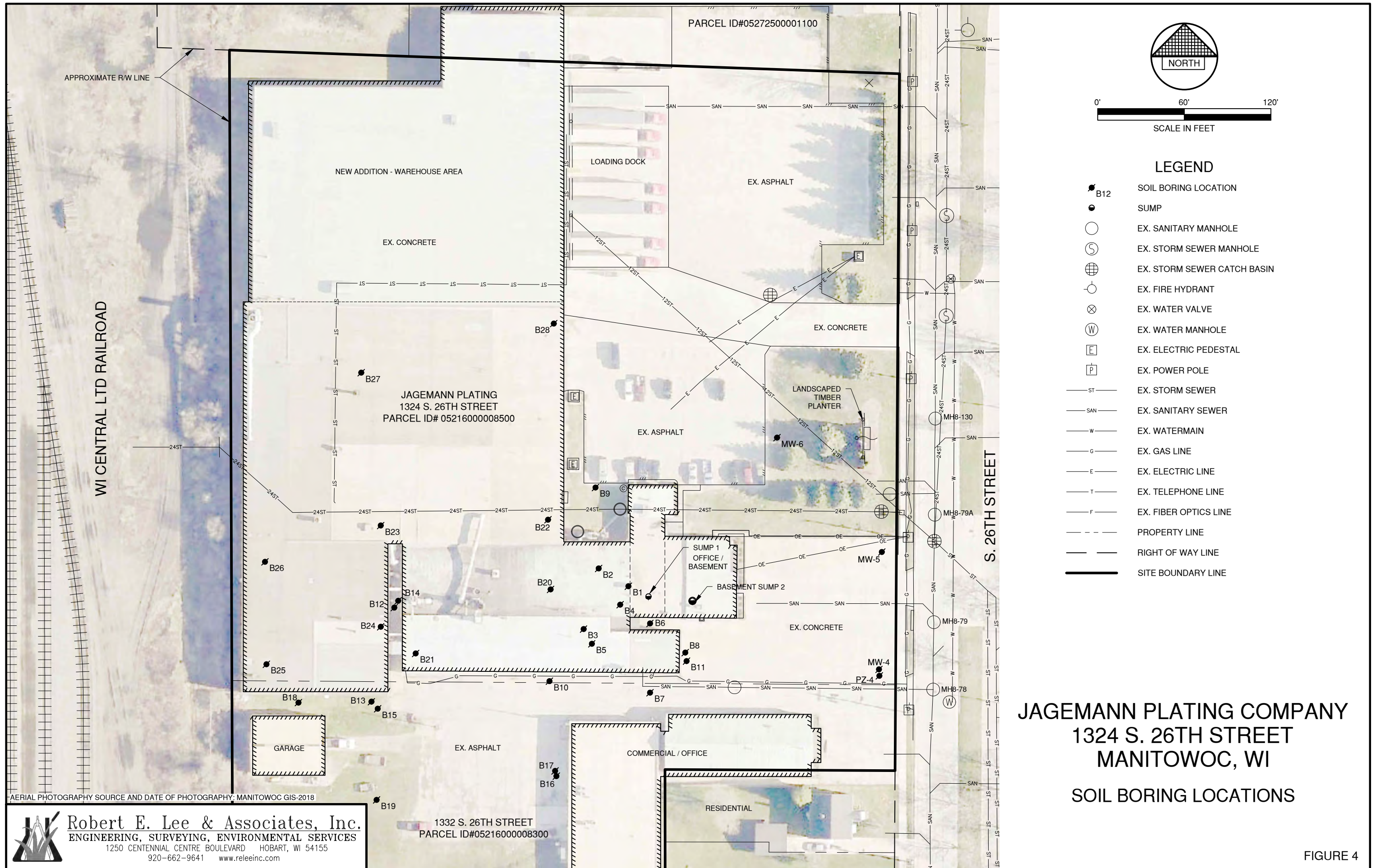
Key

* - measurement collected prior to well development

B

ATTACHMENT B

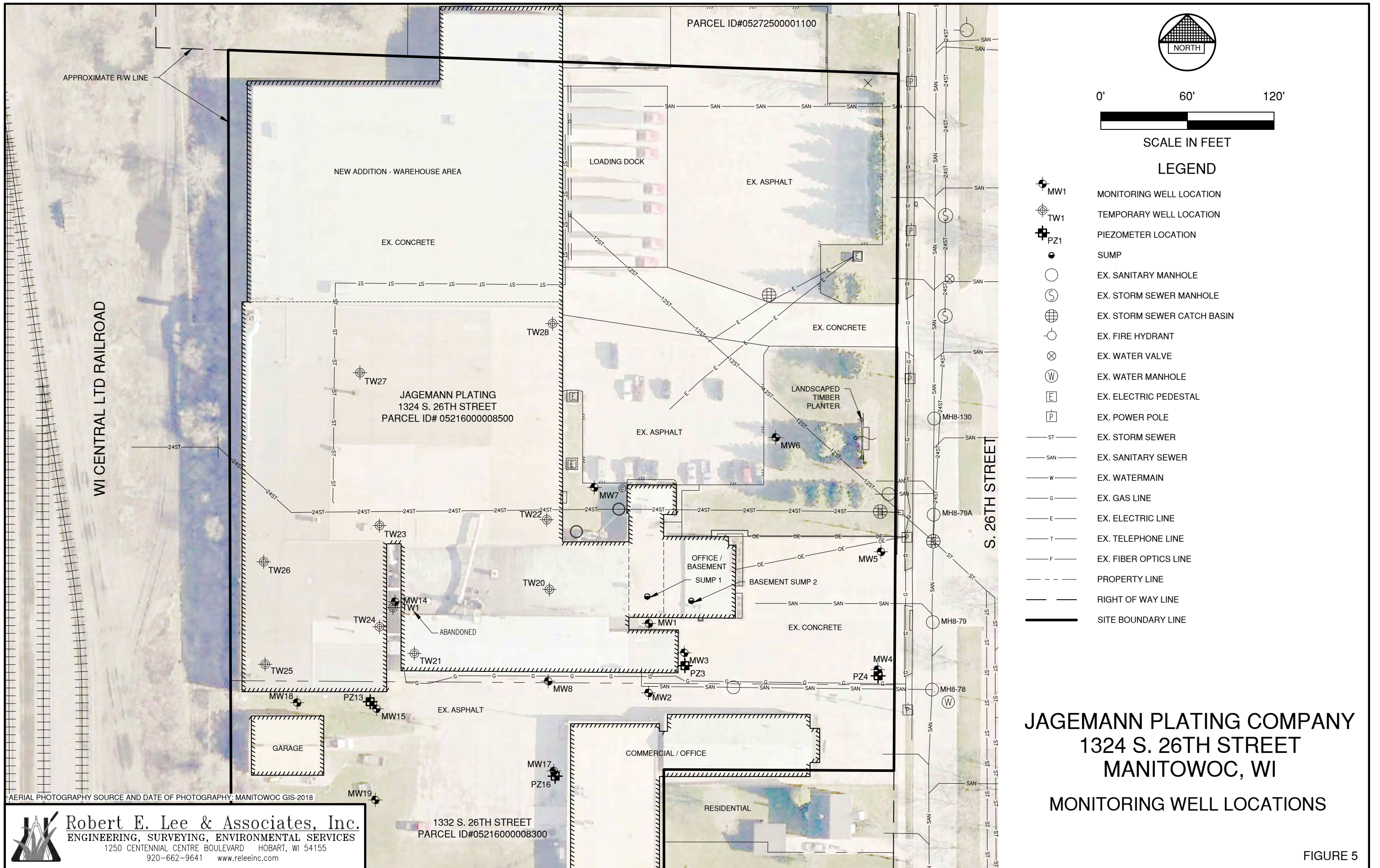
Figures



JAGEMANN PLATING COMPANY
1324 S. 26TH STREET
MANITOWOC, WI
SOIL BORING LOCATIONS

FIGURE 4

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
 920-662-9641 www.releeinc.com

























0' 60' 120'



SCALE IN FEET

LEGEND

-  MW1 MONITORING WELL LOCATION
-  TW1 TEMPORARY WELL LOCATION
-  PZ1 PIEZOMETER LOCATION
-  SUMP
-  EX. SANITARY MANHOLE
-  EX. STORM SEWER MANHOLE
-  EX. STORM SEWER CATCH BASIN
-  EX. FIRE HYDRANT
-  EX. WATER VALVE
-  EX. WATER MANHOLE
-  EX. ELECTRIC PEDESTAL
-  EX. POWER POLE
-  ST EX. STORM SEWER
-  SAN EX. SANITARY SEWER
-  W EX. WATERMAIN
-  G EX. GAS LINE
-  E EX. ELECTRIC LINE
-  T EX. TELEPHONE LINE
-  F EX. FIBER OPTICS LINE
-  - - - PROPERTY LINE
-  - - - RIGHT OF WAY LINE
-  ——— SITE BOUNDARY LINE

JAGEMANN PLATING COMPANY
1324 S. 26TH STREET
MANITOWOC, WI

MONITORING WELL LOCATIONS

FIGURE 5

AERIAL PHOTOGRAPHY SOURCE AND DATE OF PHOTOGRAPHY: MANITOWOC GIS-2018



Robert E. Lee & Associates, Inc.
 ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
 920-662-9641 www.releeinc.com

1332 S. 26TH STREET
 PARCEL ID#05216000008300

C

ATTACHMENT C

Soil Laboratory Reports

June 29, 2022

Nicole Laplant
ROBERT E. LEE & ASSOCIATES, IN
1250 Centennial Centre Blvd
Oneida, WI 54155

RE: Project: 1162-013
Pace Project No.: 40245897

Dear Nicole Laplant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2022. 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,



Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Cody Applekamp, Robert E Lee & Associates, Inc.
Alan Gustafson, Robert E. Lee & Associates
Bruce Meissner, Robert E. Lee & Associates, Inc
Lori Rogers, Robert E Lee



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1162-013

Pace Project No.: 40245897

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: 1162-013

Pace Project No.: 40245897

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40245897001	B-26(0-4')	Solid	06/02/22 11:45	06/03/22 09:35
40245897002	B-26(6-8')	Solid	06/02/22 12:20	06/03/22 09:35
40245897003	B-27(0-4')	Solid	06/02/22 11:00	06/03/22 09:35
40245897004	B-27(6-8')	Solid	06/02/22 11:20	06/03/22 09:35
40245897005	B-28(0-4')	Solid	06/02/22 10:00	06/03/22 09:35
40245897006	B-28(6-8')	Solid	06/02/22 10:30	06/03/22 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1162-013
Pace Project No.: 40245897

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40245897001	B-26(0-4')	EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40245897002	B-26(6-8')	EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40245897003	B-27(0-4')	EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40245897004	B-27(6-8')	EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40245897005	B-28(0-4')	EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MYH	1	PASI-G
40245897006	B-28(6-8')	EPA 6010D	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	MYH	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1162-013
Pace Project No.: 40245897

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40245897001	B-26(0-4')					
EPA 6010D	Arsenic	2.3J	mg/kg	2.8	06/06/22 17:56	
EPA 6010D	Barium	48.9	mg/kg	0.57	06/06/22 17:56	M0
EPA 6010D	Cadmium	0.29J	mg/kg	0.57	06/06/22 17:56	
EPA 6010D	Chromium	36.2	mg/kg	1.1	06/06/22 17:56	
EPA 6010D	Lead	4.8	mg/kg	2.3	06/06/22 17:56	
EPA 7471	Mercury	0.012J	mg/kg	0.038	06/09/22 13:25	1q
EPA 8260	Dichlorodifluoromethane	50.8J	ug/kg	63.1	06/06/22 13:36	
ASTM D2974-87	Percent Moisture	11.6	%	0.10	06/07/22 14:28	
40245897002	B-26(6-8')					
EPA 6010D	Arsenic	4.1	mg/kg	3.2	06/06/22 18:06	
EPA 6010D	Barium	82.2	mg/kg	0.63	06/06/22 18:06	
EPA 6010D	Chromium	23.7	mg/kg	1.3	06/06/22 18:06	
EPA 6010D	Lead	6.6	mg/kg	2.5	06/06/22 18:06	
EPA 8260	Dichlorodifluoromethane	90.3	ug/kg	76.8	06/06/22 13:57	
EPA 8260	1,1-Dichloroethene	37.8J	ug/kg	76.8	06/06/22 13:57	
EPA 8260	cis-1,2-Dichloroethene	153	ug/kg	76.8	06/06/22 13:57	
EPA 8260	Trichloroethene	622	ug/kg	76.8	06/06/22 13:57	
EPA 8260	Vinyl chloride	31.9J	ug/kg	76.8	06/06/22 13:57	
ASTM D2974-87	Percent Moisture	21.1	%	0.10	06/07/22 14:28	
40245897003	B-27(0-4')					
EPA 6010D	Arsenic	3.6	mg/kg	2.9	06/06/22 18:11	
EPA 6010D	Barium	91.2	mg/kg	0.58	06/06/22 18:11	
EPA 6010D	Cadmium	0.49J	mg/kg	0.58	06/06/22 18:11	
EPA 6010D	Chromium	27.1	mg/kg	1.2	06/06/22 18:11	
EPA 6010D	Lead	11.3	mg/kg	2.3	06/06/22 18:11	
EPA 6010D	Silver	0.38J	mg/kg	1.2	06/06/22 18:11	
EPA 7471	Mercury	0.033J	mg/kg	0.039	06/09/22 13:30	1q
ASTM D2974-87	Percent Moisture	16.0	%	0.10	06/07/22 14:28	
40245897004	B-27(6-8')					
EPA 6010D	Arsenic	5.4	mg/kg	2.9	06/06/22 18:13	
EPA 6010D	Barium	116	mg/kg	0.58	06/06/22 18:13	
EPA 6010D	Cadmium	0.22J	mg/kg	0.58	06/06/22 18:13	
EPA 6010D	Chromium	31.5	mg/kg	1.2	06/06/22 18:13	
EPA 6010D	Lead	9.0	mg/kg	2.3	06/06/22 18:13	
EPA 6010D	Silver	0.37J	mg/kg	1.2	06/06/22 18:13	
ASTM D2974-87	Percent Moisture	18.7	%	0.10	06/07/22 14:29	
40245897005	B-28(0-4')					
EPA 6010D	Arsenic	2.5J	mg/kg	2.7	06/06/22 18:15	
EPA 6010D	Barium	29.8	mg/kg	0.54	06/06/22 18:15	
EPA 6010D	Cadmium	0.39J	mg/kg	0.54	06/06/22 18:15	
EPA 6010D	Chromium	9.0	mg/kg	1.1	06/06/22 18:15	
EPA 6010D	Lead	23.3	mg/kg	2.2	06/06/22 18:15	
ASTM D2974-87	Percent Moisture	8.0	%	0.10	06/07/22 14:29	

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SUMMARY OF DETECTION

Project: 1162-013

Pace Project No.: 40245897

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40245897006	B-28(6-8')					
EPA 6010D	Arsenic	2.0J	mg/kg	3.1	06/06/22 18:23	
EPA 6010D	Barium	86.5	mg/kg	0.62	06/06/22 18:23	
EPA 6010D	Cadmium	0.17J	mg/kg	0.62	06/06/22 18:23	
EPA 6010D	Chromium	34.5	mg/kg	1.2	06/06/22 18:23	
EPA 6010D	Lead	9.7	mg/kg	2.5	06/06/22 18:23	
EPA 7471	Mercury	0.078	mg/kg	0.043	06/09/22 13:37	1q
ASTM D2974-87	Percent Moisture	23.1	%	0.10	06/07/22 14:29	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-26(0-4') Lab ID: **40245897001** Collected: 06/02/22 11:45 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.3J	mg/kg	2.8	1.7	1	06/06/22 07:29	06/06/22 17:56	7440-38-2	
Barium	48.9	mg/kg	0.57	0.17	1	06/06/22 07:29	06/06/22 17:56	7440-39-3	M0
Cadmium	0.29J	mg/kg	0.57	0.15	1	06/06/22 07:29	06/06/22 17:56	7440-43-9	
Chromium	36.2	mg/kg	1.1	0.31	1	06/06/22 07:29	06/06/22 17:56	7440-47-3	
Lead	4.8	mg/kg	2.3	0.68	1	06/06/22 07:29	06/06/22 17:56	7439-92-1	
Selenium	<1.5	mg/kg	4.5	1.5	1	06/06/22 07:29	06/06/22 17:56	7782-49-2	
Silver	<0.35	mg/kg	1.1	0.35	1	06/06/22 07:29	06/06/22 17:56	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.012J	mg/kg	0.038	0.011	1	06/08/22 09:24	06/09/22 13:25	7439-97-6	1q
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<15.0	ug/kg	25.2	15.0	1	06/06/22 08:45	06/06/22 13:36	71-43-2	
Bromobenzene	<24.6	ug/kg	63.1	24.6	1	06/06/22 08:45	06/06/22 13:36	108-86-1	
Bromochloromethane	<17.3	ug/kg	63.1	17.3	1	06/06/22 08:45	06/06/22 13:36	74-97-5	
Bromodichloromethane	<15.0	ug/kg	63.1	15.0	1	06/06/22 08:45	06/06/22 13:36	75-27-4	
Bromoform	<277	ug/kg	315	277	1	06/06/22 08:45	06/06/22 13:36	75-25-2	
Bromomethane	<88.4	ug/kg	315	88.4	1	06/06/22 08:45	06/06/22 13:36	74-83-9	
n-Butylbenzene	<28.9	ug/kg	63.1	28.9	1	06/06/22 08:45	06/06/22 13:36	104-51-8	
sec-Butylbenzene	<15.4	ug/kg	63.1	15.4	1	06/06/22 08:45	06/06/22 13:36	135-98-8	
tert-Butylbenzene	<19.8	ug/kg	63.1	19.8	1	06/06/22 08:45	06/06/22 13:36	98-06-6	
Carbon tetrachloride	<13.9	ug/kg	63.1	13.9	1	06/06/22 08:45	06/06/22 13:36	56-23-5	L1
Chlorobenzene	<7.6	ug/kg	63.1	7.6	1	06/06/22 08:45	06/06/22 13:36	108-90-7	
Chloroethane	<26.6	ug/kg	315	26.6	1	06/06/22 08:45	06/06/22 13:36	75-00-3	
Chloroform	<45.2	ug/kg	315	45.2	1	06/06/22 08:45	06/06/22 13:36	67-66-3	
Chloromethane	<24.0	ug/kg	63.1	24.0	1	06/06/22 08:45	06/06/22 13:36	74-87-3	
2-Chlorotoluene	<20.4	ug/kg	63.1	20.4	1	06/06/22 08:45	06/06/22 13:36	95-49-8	
4-Chlorotoluene	<24.0	ug/kg	63.1	24.0	1	06/06/22 08:45	06/06/22 13:36	106-43-4	
1,2-Dibromo-3-chloropropane	<48.9	ug/kg	315	48.9	1	06/06/22 08:45	06/06/22 13:36	96-12-8	
Dibromochloromethane	<216	ug/kg	315	216	1	06/06/22 08:45	06/06/22 13:36	124-48-1	
1,2-Dibromoethane (EDB)	<17.3	ug/kg	63.1	17.3	1	06/06/22 08:45	06/06/22 13:36	106-93-4	
Dibromomethane	<18.7	ug/kg	63.1	18.7	1	06/06/22 08:45	06/06/22 13:36	74-95-3	
1,2-Dichlorobenzene	<19.6	ug/kg	63.1	19.6	1	06/06/22 08:45	06/06/22 13:36	95-50-1	
1,3-Dichlorobenzene	<17.3	ug/kg	63.1	17.3	1	06/06/22 08:45	06/06/22 13:36	541-73-1	
1,4-Dichlorobenzene	<17.3	ug/kg	63.1	17.3	1	06/06/22 08:45	06/06/22 13:36	106-46-7	
Dichlorodifluoromethane	50.8J	ug/kg	63.1	27.1	1	06/06/22 08:45	06/06/22 13:36	75-71-8	
1,1-Dichloroethane	<16.1	ug/kg	63.1	16.1	1	06/06/22 08:45	06/06/22 13:36	75-34-3	
1,2-Dichloroethane	<14.5	ug/kg	63.1	14.5	1	06/06/22 08:45	06/06/22 13:36	107-06-2	
1,1-Dichloroethene	<20.9	ug/kg	63.1	20.9	1	06/06/22 08:45	06/06/22 13:36	75-35-4	
cis-1,2-Dichloroethene	<13.5	ug/kg	63.1	13.5	1	06/06/22 08:45	06/06/22 13:36	156-59-2	
trans-1,2-Dichloroethene	<13.6	ug/kg	63.1	13.6	1	06/06/22 08:45	06/06/22 13:36	156-60-5	
1,2-Dichloropropane	<15.0	ug/kg	63.1	15.0	1	06/06/22 08:45	06/06/22 13:36	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-26(0-4') **Lab ID: 40245897001** Collected: 06/02/22 11:45 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<13.7	ug/kg	63.1	13.7	1	06/06/22 08:45	06/06/22 13:36	142-28-9	
2,2-Dichloropropane	<17.0	ug/kg	63.1	17.0	1	06/06/22 08:45	06/06/22 13:36	594-20-7	
1,1-Dichloropropene	<20.4	ug/kg	63.1	20.4	1	06/06/22 08:45	06/06/22 13:36	563-58-6	
cis-1,3-Dichloropropene	<41.6	ug/kg	315	41.6	1	06/06/22 08:45	06/06/22 13:36	10061-01-5	
trans-1,3-Dichloropropene	<180	ug/kg	315	180	1	06/06/22 08:45	06/06/22 13:36	10061-02-6	
Diisopropyl ether	<15.6	ug/kg	63.1	15.6	1	06/06/22 08:45	06/06/22 13:36	108-20-3	
Ethylbenzene	<15.0	ug/kg	63.1	15.0	1	06/06/22 08:45	06/06/22 13:36	100-41-4	
Hexachloro-1,3-butadiene	<125	ug/kg	315	125	1	06/06/22 08:45	06/06/22 13:36	87-68-3	
Isopropylbenzene (Cumene)	<17.0	ug/kg	63.1	17.0	1	06/06/22 08:45	06/06/22 13:36	98-82-8	
p-Isopropyltoluene	<19.2	ug/kg	63.1	19.2	1	06/06/22 08:45	06/06/22 13:36	99-87-6	
Methylene Chloride	<17.5	ug/kg	63.1	17.5	1	06/06/22 08:45	06/06/22 13:36	75-09-2	
Methyl-tert-butyl ether	<18.5	ug/kg	63.1	18.5	1	06/06/22 08:45	06/06/22 13:36	1634-04-4	
Naphthalene	<19.7	ug/kg	315	19.7	1	06/06/22 08:45	06/06/22 13:36	91-20-3	
n-Propylbenzene	<15.1	ug/kg	63.1	15.1	1	06/06/22 08:45	06/06/22 13:36	103-65-1	
Styrene	<16.1	ug/kg	63.1	16.1	1	06/06/22 08:45	06/06/22 13:36	100-42-5	
1,1,1,2-Tetrachloroethane	<15.1	ug/kg	63.1	15.1	1	06/06/22 08:45	06/06/22 13:36	630-20-6	
1,1,2,2-Tetrachloroethane	<22.8	ug/kg	63.1	22.8	1	06/06/22 08:45	06/06/22 13:36	79-34-5	
Tetrachloroethene	<24.5	ug/kg	63.1	24.5	1	06/06/22 08:45	06/06/22 13:36	127-18-4	
Toluene	<15.9	ug/kg	63.1	15.9	1	06/06/22 08:45	06/06/22 13:36	108-88-3	
1,2,3-Trichlorobenzene	<70.3	ug/kg	315	70.3	1	06/06/22 08:45	06/06/22 13:36	87-61-6	
1,2,4-Trichlorobenzene	<52.0	ug/kg	315	52.0	1	06/06/22 08:45	06/06/22 13:36	120-82-1	
1,1,1-Trichloroethane	<16.1	ug/kg	63.1	16.1	1	06/06/22 08:45	06/06/22 13:36	71-55-6	
1,1,2-Trichloroethane	<23.0	ug/kg	63.1	23.0	1	06/06/22 08:45	06/06/22 13:36	79-00-5	
Trichloroethene	<23.6	ug/kg	63.1	23.6	1	06/06/22 08:45	06/06/22 13:36	79-01-6	
Trichlorofluoromethane	<18.3	ug/kg	63.1	18.3	1	06/06/22 08:45	06/06/22 13:36	75-69-4	
1,2,3-Trichloropropane	<30.7	ug/kg	63.1	30.7	1	06/06/22 08:45	06/06/22 13:36	96-18-4	
1,2,4-Trimethylbenzene	<18.8	ug/kg	63.1	18.8	1	06/06/22 08:45	06/06/22 13:36	95-63-6	
1,3,5-Trimethylbenzene	<20.3	ug/kg	63.1	20.3	1	06/06/22 08:45	06/06/22 13:36	108-67-8	
Vinyl chloride	<12.7	ug/kg	63.1	12.7	1	06/06/22 08:45	06/06/22 13:36	75-01-4	
m&p-Xylene	<26.6	ug/kg	126	26.6	1	06/06/22 08:45	06/06/22 13:36	179601-23-1	
o-Xylene	<18.9	ug/kg	63.1	18.9	1	06/06/22 08:45	06/06/22 13:36	95-47-6	
Surrogates									
Toluene-d8 (S)	119	%	69-153		1	06/06/22 08:45	06/06/22 13:36	2037-26-5	
4-Bromofluorobenzene (S)	120	%	68-156		1	06/06/22 08:45	06/06/22 13:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	128	%	71-161		1	06/06/22 08:45	06/06/22 13:36	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	11.6	%	0.10	0.10	1		06/07/22 14:28		
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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-26(6-8') **Lab ID: 40245897002** Collected: 06/02/22 12:20 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	4.1	mg/kg	3.2	1.8	1	06/06/22 07:29	06/06/22 18:06	7440-38-2	
Barium	82.2	mg/kg	0.63	0.19	1	06/06/22 07:29	06/06/22 18:06	7440-39-3	
Cadmium	<0.17	mg/kg	0.63	0.17	1	06/06/22 07:29	06/06/22 18:06	7440-43-9	
Chromium	23.7	mg/kg	1.3	0.35	1	06/06/22 07:29	06/06/22 18:06	7440-47-3	
Lead	6.6	mg/kg	2.5	0.76	1	06/06/22 07:29	06/06/22 18:06	7439-92-1	
Selenium	<1.7	mg/kg	5.0	1.7	1	06/06/22 07:29	06/06/22 18:06	7782-49-2	
Silver	<0.39	mg/kg	1.3	0.39	1	06/06/22 07:29	06/06/22 18:06	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.012	mg/kg	0.042	0.012	1	06/08/22 09:24	06/09/22 13:27	7439-97-6	1q
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<18.3	ug/kg	30.7	18.3	1	06/06/22 08:45	06/06/22 13:57	71-43-2	
Bromobenzene	<29.9	ug/kg	76.8	29.9	1	06/06/22 08:45	06/06/22 13:57	108-86-1	
Bromochloromethane	<21.0	ug/kg	76.8	21.0	1	06/06/22 08:45	06/06/22 13:57	74-97-5	
Bromodichloromethane	<18.3	ug/kg	76.8	18.3	1	06/06/22 08:45	06/06/22 13:57	75-27-4	
Bromoform	<338	ug/kg	384	338	1	06/06/22 08:45	06/06/22 13:57	75-25-2	
Bromomethane	<108	ug/kg	384	108	1	06/06/22 08:45	06/06/22 13:57	74-83-9	
n-Butylbenzene	<35.2	ug/kg	76.8	35.2	1	06/06/22 08:45	06/06/22 13:57	104-51-8	
sec-Butylbenzene	<18.7	ug/kg	76.8	18.7	1	06/06/22 08:45	06/06/22 13:57	135-98-8	
tert-Butylbenzene	<24.1	ug/kg	76.8	24.1	1	06/06/22 08:45	06/06/22 13:57	98-06-6	
Carbon tetrachloride	<16.9	ug/kg	76.8	16.9	1	06/06/22 08:45	06/06/22 13:57	56-23-5	L1
Chlorobenzene	<9.2	ug/kg	76.8	9.2	1	06/06/22 08:45	06/06/22 13:57	108-90-7	
Chloroethane	<32.4	ug/kg	384	32.4	1	06/06/22 08:45	06/06/22 13:57	75-00-3	
Chloroform	<55.0	ug/kg	384	55.0	1	06/06/22 08:45	06/06/22 13:57	67-66-3	
Chloromethane	<29.2	ug/kg	76.8	29.2	1	06/06/22 08:45	06/06/22 13:57	74-87-3	
2-Chlorotoluene	<24.9	ug/kg	76.8	24.9	1	06/06/22 08:45	06/06/22 13:57	95-49-8	
4-Chlorotoluene	<29.2	ug/kg	76.8	29.2	1	06/06/22 08:45	06/06/22 13:57	106-43-4	
1,2-Dibromo-3-chloropropane	<59.6	ug/kg	384	59.6	1	06/06/22 08:45	06/06/22 13:57	96-12-8	
Dibromochloromethane	<262	ug/kg	384	262	1	06/06/22 08:45	06/06/22 13:57	124-48-1	
1,2-Dibromoethane (EDB)	<21.0	ug/kg	76.8	21.0	1	06/06/22 08:45	06/06/22 13:57	106-93-4	
Dibromomethane	<22.7	ug/kg	76.8	22.7	1	06/06/22 08:45	06/06/22 13:57	74-95-3	
1,2-Dichlorobenzene	<23.8	ug/kg	76.8	23.8	1	06/06/22 08:45	06/06/22 13:57	95-50-1	
1,3-Dichlorobenzene	<21.0	ug/kg	76.8	21.0	1	06/06/22 08:45	06/06/22 13:57	541-73-1	
1,4-Dichlorobenzene	<21.0	ug/kg	76.8	21.0	1	06/06/22 08:45	06/06/22 13:57	106-46-7	
Dichlorodifluoromethane	90.3	ug/kg	76.8	33.0	1	06/06/22 08:45	06/06/22 13:57	75-71-8	
1,1-Dichloroethane	<19.7	ug/kg	76.8	19.7	1	06/06/22 08:45	06/06/22 13:57	75-34-3	
1,2-Dichloroethane	<17.7	ug/kg	76.8	17.7	1	06/06/22 08:45	06/06/22 13:57	107-06-2	
1,1-Dichloroethene	37.8J	ug/kg	76.8	25.5	1	06/06/22 08:45	06/06/22 13:57	75-35-4	
cis-1,2-Dichloroethene	153	ug/kg	76.8	16.4	1	06/06/22 08:45	06/06/22 13:57	156-59-2	
trans-1,2-Dichloroethene	<16.6	ug/kg	76.8	16.6	1	06/06/22 08:45	06/06/22 13:57	156-60-5	
1,2-Dichloropropane	<18.3	ug/kg	76.8	18.3	1	06/06/22 08:45	06/06/22 13:57	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-26(6-8') Lab ID: **40245897002** Collected: 06/02/22 12:20 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<16.7	ug/kg	76.8	16.7	1	06/06/22 08:45	06/06/22 13:57	142-28-9	
2,2-Dichloropropane	<20.7	ug/kg	76.8	20.7	1	06/06/22 08:45	06/06/22 13:57	594-20-7	
1,1-Dichloropropene	<24.9	ug/kg	76.8	24.9	1	06/06/22 08:45	06/06/22 13:57	563-58-6	
cis-1,3-Dichloropropene	<50.7	ug/kg	384	50.7	1	06/06/22 08:45	06/06/22 13:57	10061-01-5	
trans-1,3-Dichloropropene	<220	ug/kg	384	220	1	06/06/22 08:45	06/06/22 13:57	10061-02-6	
Diisopropyl ether	<19.0	ug/kg	76.8	19.0	1	06/06/22 08:45	06/06/22 13:57	108-20-3	
Ethylbenzene	<18.3	ug/kg	76.8	18.3	1	06/06/22 08:45	06/06/22 13:57	100-41-4	
Hexachloro-1,3-butadiene	<153	ug/kg	384	153	1	06/06/22 08:45	06/06/22 13:57	87-68-3	
Isopropylbenzene (Cumene)	<20.7	ug/kg	76.8	20.7	1	06/06/22 08:45	06/06/22 13:57	98-82-8	
p-Isopropyltoluene	<23.3	ug/kg	76.8	23.3	1	06/06/22 08:45	06/06/22 13:57	99-87-6	
Methylene Chloride	<21.3	ug/kg	76.8	21.3	1	06/06/22 08:45	06/06/22 13:57	75-09-2	
Methyl-tert-butyl ether	<22.6	ug/kg	76.8	22.6	1	06/06/22 08:45	06/06/22 13:57	1634-04-4	
Naphthalene	<24.0	ug/kg	384	24.0	1	06/06/22 08:45	06/06/22 13:57	91-20-3	
n-Propylbenzene	<18.4	ug/kg	76.8	18.4	1	06/06/22 08:45	06/06/22 13:57	103-65-1	
Styrene	<19.7	ug/kg	76.8	19.7	1	06/06/22 08:45	06/06/22 13:57	100-42-5	
1,1,1,2-Tetrachloroethane	<18.4	ug/kg	76.8	18.4	1	06/06/22 08:45	06/06/22 13:57	630-20-6	
1,1,2,2-Tetrachloroethane	<27.8	ug/kg	76.8	27.8	1	06/06/22 08:45	06/06/22 13:57	79-34-5	
Tetrachloroethene	<29.8	ug/kg	76.8	29.8	1	06/06/22 08:45	06/06/22 13:57	127-18-4	
Toluene	<19.4	ug/kg	76.8	19.4	1	06/06/22 08:45	06/06/22 13:57	108-88-3	
1,2,3-Trichlorobenzene	<85.5	ug/kg	384	85.5	1	06/06/22 08:45	06/06/22 13:57	87-61-6	
1,2,4-Trichlorobenzene	<63.3	ug/kg	384	63.3	1	06/06/22 08:45	06/06/22 13:57	120-82-1	
1,1,1-Trichloroethane	<19.7	ug/kg	76.8	19.7	1	06/06/22 08:45	06/06/22 13:57	71-55-6	
1,1,2-Trichloroethane	<28.0	ug/kg	76.8	28.0	1	06/06/22 08:45	06/06/22 13:57	79-00-5	
Trichloroethene	622	ug/kg	76.8	28.7	1	06/06/22 08:45	06/06/22 13:57	79-01-6	
Trichlorofluoromethane	<22.3	ug/kg	76.8	22.3	1	06/06/22 08:45	06/06/22 13:57	75-69-4	
1,2,3-Trichloropropane	<37.3	ug/kg	76.8	37.3	1	06/06/22 08:45	06/06/22 13:57	96-18-4	
1,2,4-Trimethylbenzene	<22.9	ug/kg	76.8	22.9	1	06/06/22 08:45	06/06/22 13:57	95-63-6	
1,3,5-Trimethylbenzene	<24.7	ug/kg	76.8	24.7	1	06/06/22 08:45	06/06/22 13:57	108-67-8	
Vinyl chloride	31.9J	ug/kg	76.8	15.5	1	06/06/22 08:45	06/06/22 13:57	75-01-4	
m&p-Xylene	<32.4	ug/kg	154	32.4	1	06/06/22 08:45	06/06/22 13:57	179601-23-1	
o-Xylene	<23.0	ug/kg	76.8	23.0	1	06/06/22 08:45	06/06/22 13:57	95-47-6	
Surrogates									
Toluene-d8 (S)	131	%	69-153		1	06/06/22 08:45	06/06/22 13:57	2037-26-5	
4-Bromofluorobenzene (S)	133	%	68-156		1	06/06/22 08:45	06/06/22 13:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	138	%	71-161		1	06/06/22 08:45	06/06/22 13:57	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	21.1	%	0.10	0.10	1		06/07/22 14:28		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-27(0-4') **Lab ID: 40245897003** Collected: 06/02/22 11:00 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.6	mg/kg	2.9	1.7	1	06/06/22 07:29	06/06/22 18:11	7440-38-2	
Barium	91.2	mg/kg	0.58	0.17	1	06/06/22 07:29	06/06/22 18:11	7440-39-3	
Cadmium	0.49J	mg/kg	0.58	0.15	1	06/06/22 07:29	06/06/22 18:11	7440-43-9	
Chromium	27.1	mg/kg	1.2	0.32	1	06/06/22 07:29	06/06/22 18:11	7440-47-3	
Lead	11.3	mg/kg	2.3	0.69	1	06/06/22 07:29	06/06/22 18:11	7439-92-1	
Selenium	<1.5	mg/kg	4.6	1.5	1	06/06/22 07:29	06/06/22 18:11	7782-49-2	
Silver	0.38J	mg/kg	1.2	0.35	1	06/06/22 07:29	06/06/22 18:11	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.033J	mg/kg	0.039	0.011	1	06/08/22 09:24	06/09/22 13:30	7439-97-6	1q
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<16.4	ug/kg	27.6	16.4	1	06/06/22 08:45	06/06/22 14:17	71-43-2	
Bromobenzene	<26.9	ug/kg	69.0	26.9	1	06/06/22 08:45	06/06/22 14:17	108-86-1	
Bromochloromethane	<18.9	ug/kg	69.0	18.9	1	06/06/22 08:45	06/06/22 14:17	74-97-5	
Bromodichloromethane	<16.4	ug/kg	69.0	16.4	1	06/06/22 08:45	06/06/22 14:17	75-27-4	
Bromoform	<304	ug/kg	345	304	1	06/06/22 08:45	06/06/22 14:17	75-25-2	
Bromomethane	<96.8	ug/kg	345	96.8	1	06/06/22 08:45	06/06/22 14:17	74-83-9	
n-Butylbenzene	<31.6	ug/kg	69.0	31.6	1	06/06/22 08:45	06/06/22 14:17	104-51-8	
sec-Butylbenzene	<16.8	ug/kg	69.0	16.8	1	06/06/22 08:45	06/06/22 14:17	135-98-8	
tert-Butylbenzene	<21.7	ug/kg	69.0	21.7	1	06/06/22 08:45	06/06/22 14:17	98-06-6	
Carbon tetrachloride	<15.2	ug/kg	69.0	15.2	1	06/06/22 08:45	06/06/22 14:17	56-23-5	L1
Chlorobenzene	<8.3	ug/kg	69.0	8.3	1	06/06/22 08:45	06/06/22 14:17	108-90-7	
Chloroethane	<29.1	ug/kg	345	29.1	1	06/06/22 08:45	06/06/22 14:17	75-00-3	
Chloroform	<49.4	ug/kg	345	49.4	1	06/06/22 08:45	06/06/22 14:17	67-66-3	
Chloromethane	<26.2	ug/kg	69.0	26.2	1	06/06/22 08:45	06/06/22 14:17	74-87-3	
2-Chlorotoluene	<22.4	ug/kg	69.0	22.4	1	06/06/22 08:45	06/06/22 14:17	95-49-8	
4-Chlorotoluene	<26.2	ug/kg	69.0	26.2	1	06/06/22 08:45	06/06/22 14:17	106-43-4	
1,2-Dibromo-3-chloropropane	<53.6	ug/kg	345	53.6	1	06/06/22 08:45	06/06/22 14:17	96-12-8	
Dibromochloromethane	<236	ug/kg	345	236	1	06/06/22 08:45	06/06/22 14:17	124-48-1	
1,2-Dibromoethane (EDB)	<18.9	ug/kg	69.0	18.9	1	06/06/22 08:45	06/06/22 14:17	106-93-4	
Dibromomethane	<20.4	ug/kg	69.0	20.4	1	06/06/22 08:45	06/06/22 14:17	74-95-3	
1,2-Dichlorobenzene	<21.4	ug/kg	69.0	21.4	1	06/06/22 08:45	06/06/22 14:17	95-50-1	
1,3-Dichlorobenzene	<18.9	ug/kg	69.0	18.9	1	06/06/22 08:45	06/06/22 14:17	541-73-1	
1,4-Dichlorobenzene	<18.9	ug/kg	69.0	18.9	1	06/06/22 08:45	06/06/22 14:17	106-46-7	
Dichlorodifluoromethane	<29.7	ug/kg	69.0	29.7	1	06/06/22 08:45	06/06/22 14:17	75-71-8	
1,1-Dichloroethane	<17.7	ug/kg	69.0	17.7	1	06/06/22 08:45	06/06/22 14:17	75-34-3	
1,2-Dichloroethane	<15.9	ug/kg	69.0	15.9	1	06/06/22 08:45	06/06/22 14:17	107-06-2	
1,1-Dichloroethene	<22.9	ug/kg	69.0	22.9	1	06/06/22 08:45	06/06/22 14:17	75-35-4	
cis-1,2-Dichloroethene	<14.8	ug/kg	69.0	14.8	1	06/06/22 08:45	06/06/22 14:17	156-59-2	
trans-1,2-Dichloroethene	<14.9	ug/kg	69.0	14.9	1	06/06/22 08:45	06/06/22 14:17	156-60-5	
1,2-Dichloropropane	<16.4	ug/kg	69.0	16.4	1	06/06/22 08:45	06/06/22 14:17	78-87-5	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-27(0-4') **Lab ID: 40245897003** Collected: 06/02/22 11:00 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<15.0	ug/kg	69.0	15.0	1	06/06/22 08:45	06/06/22 14:17	142-28-9	
2,2-Dichloropropane	<18.6	ug/kg	69.0	18.6	1	06/06/22 08:45	06/06/22 14:17	594-20-7	
1,1-Dichloropropene	<22.4	ug/kg	69.0	22.4	1	06/06/22 08:45	06/06/22 14:17	563-58-6	
cis-1,3-Dichloropropene	<45.6	ug/kg	345	45.6	1	06/06/22 08:45	06/06/22 14:17	10061-01-5	
trans-1,3-Dichloropropene	<197	ug/kg	345	197	1	06/06/22 08:45	06/06/22 14:17	10061-02-6	
Diisopropyl ether	<17.1	ug/kg	69.0	17.1	1	06/06/22 08:45	06/06/22 14:17	108-20-3	
Ethylbenzene	<16.4	ug/kg	69.0	16.4	1	06/06/22 08:45	06/06/22 14:17	100-41-4	
Hexachloro-1,3-butadiene	<137	ug/kg	345	137	1	06/06/22 08:45	06/06/22 14:17	87-68-3	
Isopropylbenzene (Cumene)	<18.6	ug/kg	69.0	18.6	1	06/06/22 08:45	06/06/22 14:17	98-82-8	
p-Isopropyltoluene	<21.0	ug/kg	69.0	21.0	1	06/06/22 08:45	06/06/22 14:17	99-87-6	
Methylene Chloride	<19.2	ug/kg	69.0	19.2	1	06/06/22 08:45	06/06/22 14:17	75-09-2	
Methyl-tert-butyl ether	<20.3	ug/kg	69.0	20.3	1	06/06/22 08:45	06/06/22 14:17	1634-04-4	
Naphthalene	<21.5	ug/kg	345	21.5	1	06/06/22 08:45	06/06/22 14:17	91-20-3	
n-Propylbenzene	<16.6	ug/kg	69.0	16.6	1	06/06/22 08:45	06/06/22 14:17	103-65-1	
Styrene	<17.7	ug/kg	69.0	17.7	1	06/06/22 08:45	06/06/22 14:17	100-42-5	
1,1,1,2-Tetrachloroethane	<16.6	ug/kg	69.0	16.6	1	06/06/22 08:45	06/06/22 14:17	630-20-6	
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	69.0	25.0	1	06/06/22 08:45	06/06/22 14:17	79-34-5	
Tetrachloroethene	<26.8	ug/kg	69.0	26.8	1	06/06/22 08:45	06/06/22 14:17	127-18-4	
Toluene	<17.4	ug/kg	69.0	17.4	1	06/06/22 08:45	06/06/22 14:17	108-88-3	
1,2,3-Trichlorobenzene	<76.9	ug/kg	345	76.9	1	06/06/22 08:45	06/06/22 14:17	87-61-6	
1,2,4-Trichlorobenzene	<56.9	ug/kg	345	56.9	1	06/06/22 08:45	06/06/22 14:17	120-82-1	
1,1,1-Trichloroethane	<17.7	ug/kg	69.0	17.7	1	06/06/22 08:45	06/06/22 14:17	71-55-6	
1,1,2-Trichloroethane	<25.1	ug/kg	69.0	25.1	1	06/06/22 08:45	06/06/22 14:17	79-00-5	
Trichloroethene	<25.8	ug/kg	69.0	25.8	1	06/06/22 08:45	06/06/22 14:17	79-01-6	
Trichlorofluoromethane	<20.0	ug/kg	69.0	20.0	1	06/06/22 08:45	06/06/22 14:17	75-69-4	
1,2,3-Trichloropropane	<33.5	ug/kg	69.0	33.5	1	06/06/22 08:45	06/06/22 14:17	96-18-4	
1,2,4-Trimethylbenzene	<20.6	ug/kg	69.0	20.6	1	06/06/22 08:45	06/06/22 14:17	95-63-6	
1,3,5-Trimethylbenzene	<22.2	ug/kg	69.0	22.2	1	06/06/22 08:45	06/06/22 14:17	108-67-8	
Vinyl chloride	<13.9	ug/kg	69.0	13.9	1	06/06/22 08:45	06/06/22 14:17	75-01-4	
m&p-Xylene	<29.1	ug/kg	138	29.1	1	06/06/22 08:45	06/06/22 14:17	179601-23-1	
o-Xylene	<20.7	ug/kg	69.0	20.7	1	06/06/22 08:45	06/06/22 14:17	95-47-6	
Surrogates									
Toluene-d8 (S)	128	%	69-153		1	06/06/22 08:45	06/06/22 14:17	2037-26-5	
4-Bromofluorobenzene (S)	132	%	68-156		1	06/06/22 08:45	06/06/22 14:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	138	%	71-161		1	06/06/22 08:45	06/06/22 14:17	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	16.0	%	0.10	0.10	1		06/07/22 14:28		
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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-27(6-8') **Lab ID: 40245897004** Collected: 06/02/22 11:20 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	5.4	mg/kg	2.9	1.7	1	06/06/22 07:29	06/06/22 18:13	7440-38-2	
Barium	116	mg/kg	0.58	0.17	1	06/06/22 07:29	06/06/22 18:13	7440-39-3	
Cadmium	0.22J	mg/kg	0.58	0.15	1	06/06/22 07:29	06/06/22 18:13	7440-43-9	
Chromium	31.5	mg/kg	1.2	0.32	1	06/06/22 07:29	06/06/22 18:13	7440-47-3	
Lead	9.0	mg/kg	2.3	0.69	1	06/06/22 07:29	06/06/22 18:13	7439-92-1	
Selenium	<1.5	mg/kg	4.6	1.5	1	06/06/22 07:29	06/06/22 18:13	7782-49-2	
Silver	0.37J	mg/kg	1.2	0.36	1	06/06/22 07:29	06/06/22 18:13	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.012	mg/kg	0.040	0.012	1	06/08/22 09:24	06/09/22 13:32	7439-97-6	1q
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<17.4	ug/kg	29.2	17.4	1	06/06/22 08:45	06/06/22 14:37	71-43-2	
Bromobenzene	<28.5	ug/kg	73.1	28.5	1	06/06/22 08:45	06/06/22 14:37	108-86-1	
Bromochloromethane	<20.0	ug/kg	73.1	20.0	1	06/06/22 08:45	06/06/22 14:37	74-97-5	
Bromodichloromethane	<17.4	ug/kg	73.1	17.4	1	06/06/22 08:45	06/06/22 14:37	75-27-4	
Bromoform	<321	ug/kg	365	321	1	06/06/22 08:45	06/06/22 14:37	75-25-2	
Bromomethane	<102	ug/kg	365	102	1	06/06/22 08:45	06/06/22 14:37	74-83-9	
n-Butylbenzene	<33.5	ug/kg	73.1	33.5	1	06/06/22 08:45	06/06/22 14:37	104-51-8	
sec-Butylbenzene	<17.8	ug/kg	73.1	17.8	1	06/06/22 08:45	06/06/22 14:37	135-98-8	
tert-Butylbenzene	<22.9	ug/kg	73.1	22.9	1	06/06/22 08:45	06/06/22 14:37	98-06-6	
Carbon tetrachloride	<16.1	ug/kg	73.1	16.1	1	06/06/22 08:45	06/06/22 14:37	56-23-5	L1
Chlorobenzene	<8.8	ug/kg	73.1	8.8	1	06/06/22 08:45	06/06/22 14:37	108-90-7	
Chloroethane	<30.8	ug/kg	365	30.8	1	06/06/22 08:45	06/06/22 14:37	75-00-3	
Chloroform	<52.3	ug/kg	365	52.3	1	06/06/22 08:45	06/06/22 14:37	67-66-3	
Chloromethane	<27.8	ug/kg	73.1	27.8	1	06/06/22 08:45	06/06/22 14:37	74-87-3	
2-Chlorotoluene	<23.7	ug/kg	73.1	23.7	1	06/06/22 08:45	06/06/22 14:37	95-49-8	
4-Chlorotoluene	<27.8	ug/kg	73.1	27.8	1	06/06/22 08:45	06/06/22 14:37	106-43-4	
1,2-Dibromo-3-chloropropane	<56.7	ug/kg	365	56.7	1	06/06/22 08:45	06/06/22 14:37	96-12-8	
Dibromochloromethane	<250	ug/kg	365	250	1	06/06/22 08:45	06/06/22 14:37	124-48-1	
1,2-Dibromoethane (EDB)	<20.0	ug/kg	73.1	20.0	1	06/06/22 08:45	06/06/22 14:37	106-93-4	
Dibromomethane	<21.6	ug/kg	73.1	21.6	1	06/06/22 08:45	06/06/22 14:37	74-95-3	
1,2-Dichlorobenzene	<22.6	ug/kg	73.1	22.6	1	06/06/22 08:45	06/06/22 14:37	95-50-1	
1,3-Dichlorobenzene	<20.0	ug/kg	73.1	20.0	1	06/06/22 08:45	06/06/22 14:37	541-73-1	
1,4-Dichlorobenzene	<20.0	ug/kg	73.1	20.0	1	06/06/22 08:45	06/06/22 14:37	106-46-7	
Dichlorodifluoromethane	<31.4	ug/kg	73.1	31.4	1	06/06/22 08:45	06/06/22 14:37	75-71-8	
1,1-Dichloroethane	<18.7	ug/kg	73.1	18.7	1	06/06/22 08:45	06/06/22 14:37	75-34-3	
1,2-Dichloroethane	<16.8	ug/kg	73.1	16.8	1	06/06/22 08:45	06/06/22 14:37	107-06-2	
1,1-Dichloroethene	<24.3	ug/kg	73.1	24.3	1	06/06/22 08:45	06/06/22 14:37	75-35-4	
cis-1,2-Dichloroethene	<15.6	ug/kg	73.1	15.6	1	06/06/22 08:45	06/06/22 14:37	156-59-2	
trans-1,2-Dichloroethene	<15.8	ug/kg	73.1	15.8	1	06/06/22 08:45	06/06/22 14:37	156-60-5	
1,2-Dichloropropane	<17.4	ug/kg	73.1	17.4	1	06/06/22 08:45	06/06/22 14:37	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-27(6-8') **Lab ID: 40245897004** Collected: 06/02/22 11:20 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<15.9	ug/kg	73.1	15.9	1	06/06/22 08:45	06/06/22 14:37	142-28-9	
2,2-Dichloropropane	<19.7	ug/kg	73.1	19.7	1	06/06/22 08:45	06/06/22 14:37	594-20-7	
1,1-Dichloropropene	<23.7	ug/kg	73.1	23.7	1	06/06/22 08:45	06/06/22 14:37	563-58-6	
cis-1,3-Dichloropropene	<48.2	ug/kg	365	48.2	1	06/06/22 08:45	06/06/22 14:37	10061-01-5	
trans-1,3-Dichloropropene	<209	ug/kg	365	209	1	06/06/22 08:45	06/06/22 14:37	10061-02-6	
Diisopropyl ether	<18.1	ug/kg	73.1	18.1	1	06/06/22 08:45	06/06/22 14:37	108-20-3	
Ethylbenzene	<17.4	ug/kg	73.1	17.4	1	06/06/22 08:45	06/06/22 14:37	100-41-4	
Hexachloro-1,3-butadiene	<145	ug/kg	365	145	1	06/06/22 08:45	06/06/22 14:37	87-68-3	
Isopropylbenzene (Cumene)	<19.7	ug/kg	73.1	19.7	1	06/06/22 08:45	06/06/22 14:37	98-82-8	
p-Isopropyltoluene	<22.2	ug/kg	73.1	22.2	1	06/06/22 08:45	06/06/22 14:37	99-87-6	
Methylene Chloride	<20.3	ug/kg	73.1	20.3	1	06/06/22 08:45	06/06/22 14:37	75-09-2	
Methyl-tert-butyl ether	<21.5	ug/kg	73.1	21.5	1	06/06/22 08:45	06/06/22 14:37	1634-04-4	
Naphthalene	<22.8	ug/kg	365	22.8	1	06/06/22 08:45	06/06/22 14:37	91-20-3	
n-Propylbenzene	<17.5	ug/kg	73.1	17.5	1	06/06/22 08:45	06/06/22 14:37	103-65-1	
Styrene	<18.7	ug/kg	73.1	18.7	1	06/06/22 08:45	06/06/22 14:37	100-42-5	
1,1,1,2-Tetrachloroethane	<17.5	ug/kg	73.1	17.5	1	06/06/22 08:45	06/06/22 14:37	630-20-6	
1,1,2,2-Tetrachloroethane	<26.4	ug/kg	73.1	26.4	1	06/06/22 08:45	06/06/22 14:37	79-34-5	
Tetrachloroethene	<28.3	ug/kg	73.1	28.3	1	06/06/22 08:45	06/06/22 14:37	127-18-4	
Toluene	<18.4	ug/kg	73.1	18.4	1	06/06/22 08:45	06/06/22 14:37	108-88-3	
1,2,3-Trichlorobenzene	<81.4	ug/kg	365	81.4	1	06/06/22 08:45	06/06/22 14:37	87-61-6	
1,2,4-Trichlorobenzene	<60.2	ug/kg	365	60.2	1	06/06/22 08:45	06/06/22 14:37	120-82-1	
1,1,1-Trichloroethane	<18.7	ug/kg	73.1	18.7	1	06/06/22 08:45	06/06/22 14:37	71-55-6	
1,1,2-Trichloroethane	<26.6	ug/kg	73.1	26.6	1	06/06/22 08:45	06/06/22 14:37	79-00-5	
Trichloroethene	<27.3	ug/kg	73.1	27.3	1	06/06/22 08:45	06/06/22 14:37	79-01-6	
Trichlorofluoromethane	<21.2	ug/kg	73.1	21.2	1	06/06/22 08:45	06/06/22 14:37	75-69-4	
1,2,3-Trichloropropane	<35.5	ug/kg	73.1	35.5	1	06/06/22 08:45	06/06/22 14:37	96-18-4	
1,2,4-Trimethylbenzene	<21.8	ug/kg	73.1	21.8	1	06/06/22 08:45	06/06/22 14:37	95-63-6	
1,3,5-Trimethylbenzene	<23.5	ug/kg	73.1	23.5	1	06/06/22 08:45	06/06/22 14:37	108-67-8	
Vinyl chloride	<14.8	ug/kg	73.1	14.8	1	06/06/22 08:45	06/06/22 14:37	75-01-4	
m&p-Xylene	<30.8	ug/kg	146	30.8	1	06/06/22 08:45	06/06/22 14:37	179601-23-1	
o-Xylene	<21.9	ug/kg	73.1	21.9	1	06/06/22 08:45	06/06/22 14:37	95-47-6	
Surrogates									
Toluene-d8 (S)	116	%	69-153		1	06/06/22 08:45	06/06/22 14:37	2037-26-5	
4-Bromofluorobenzene (S)	128	%	68-156		1	06/06/22 08:45	06/06/22 14:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	134	%	71-161		1	06/06/22 08:45	06/06/22 14:37	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	18.7	%	0.10	0.10	1		06/07/22 14:29		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-28(0-4') **Lab ID: 40245897005** Collected: 06/02/22 10:00 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.5J	mg/kg	2.7	1.6	1	06/06/22 07:29	06/06/22 18:15	7440-38-2	
Barium	29.8	mg/kg	0.54	0.16	1	06/06/22 07:29	06/06/22 18:15	7440-39-3	
Cadmium	0.39J	mg/kg	0.54	0.14	1	06/06/22 07:29	06/06/22 18:15	7440-43-9	
Chromium	9.0	mg/kg	1.1	0.30	1	06/06/22 07:29	06/06/22 18:15	7440-47-3	
Lead	23.3	mg/kg	2.2	0.65	1	06/06/22 07:29	06/06/22 18:15	7439-92-1	
Selenium	<1.4	mg/kg	4.3	1.4	1	06/06/22 07:29	06/06/22 18:15	7782-49-2	
Silver	<0.33	mg/kg	1.1	0.33	1	06/06/22 07:29	06/06/22 18:15	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.011	mg/kg	0.037	0.011	1	06/08/22 09:24	06/09/22 13:34	7439-97-6	1q
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<14.0	ug/kg	23.5	14.0	1	06/06/22 08:45	06/06/22 14:57	71-43-2	
Bromobenzene	<22.9	ug/kg	58.7	22.9	1	06/06/22 08:45	06/06/22 14:57	108-86-1	
Bromochloromethane	<16.1	ug/kg	58.7	16.1	1	06/06/22 08:45	06/06/22 14:57	74-97-5	
Bromodichloromethane	<14.0	ug/kg	58.7	14.0	1	06/06/22 08:45	06/06/22 14:57	75-27-4	
Bromoform	<258	ug/kg	294	258	1	06/06/22 08:45	06/06/22 14:57	75-25-2	
Bromomethane	<82.3	ug/kg	294	82.3	1	06/06/22 08:45	06/06/22 14:57	74-83-9	
n-Butylbenzene	<26.9	ug/kg	58.7	26.9	1	06/06/22 08:45	06/06/22 14:57	104-51-8	
sec-Butylbenzene	<14.3	ug/kg	58.7	14.3	1	06/06/22 08:45	06/06/22 14:57	135-98-8	
tert-Butylbenzene	<18.4	ug/kg	58.7	18.4	1	06/06/22 08:45	06/06/22 14:57	98-06-6	
Carbon tetrachloride	<12.9	ug/kg	58.7	12.9	1	06/06/22 08:45	06/06/22 14:57	56-23-5	L1
Chlorobenzene	<7.0	ug/kg	58.7	7.0	1	06/06/22 08:45	06/06/22 14:57	108-90-7	
Chloroethane	<24.8	ug/kg	294	24.8	1	06/06/22 08:45	06/06/22 14:57	75-00-3	
Chloroform	<42.1	ug/kg	294	42.1	1	06/06/22 08:45	06/06/22 14:57	67-66-3	
Chloromethane	<22.3	ug/kg	58.7	22.3	1	06/06/22 08:45	06/06/22 14:57	74-87-3	
2-Chlorotoluene	<19.0	ug/kg	58.7	19.0	1	06/06/22 08:45	06/06/22 14:57	95-49-8	
4-Chlorotoluene	<22.3	ug/kg	58.7	22.3	1	06/06/22 08:45	06/06/22 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	<45.6	ug/kg	294	45.6	1	06/06/22 08:45	06/06/22 14:57	96-12-8	
Dibromochloromethane	<201	ug/kg	294	201	1	06/06/22 08:45	06/06/22 14:57	124-48-1	
1,2-Dibromoethane (EDB)	<16.1	ug/kg	58.7	16.1	1	06/06/22 08:45	06/06/22 14:57	106-93-4	
Dibromomethane	<17.4	ug/kg	58.7	17.4	1	06/06/22 08:45	06/06/22 14:57	74-95-3	
1,2-Dichlorobenzene	<18.2	ug/kg	58.7	18.2	1	06/06/22 08:45	06/06/22 14:57	95-50-1	
1,3-Dichlorobenzene	<16.1	ug/kg	58.7	16.1	1	06/06/22 08:45	06/06/22 14:57	541-73-1	
1,4-Dichlorobenzene	<16.1	ug/kg	58.7	16.1	1	06/06/22 08:45	06/06/22 14:57	106-46-7	
Dichlorodifluoromethane	<25.3	ug/kg	58.7	25.3	1	06/06/22 08:45	06/06/22 14:57	75-71-8	
1,1-Dichloroethane	<15.0	ug/kg	58.7	15.0	1	06/06/22 08:45	06/06/22 14:57	75-34-3	
1,2-Dichloroethane	<13.5	ug/kg	58.7	13.5	1	06/06/22 08:45	06/06/22 14:57	107-06-2	
1,1-Dichloroethene	<19.5	ug/kg	58.7	19.5	1	06/06/22 08:45	06/06/22 14:57	75-35-4	
cis-1,2-Dichloroethene	<12.6	ug/kg	58.7	12.6	1	06/06/22 08:45	06/06/22 14:57	156-59-2	
trans-1,2-Dichloroethene	<12.7	ug/kg	58.7	12.7	1	06/06/22 08:45	06/06/22 14:57	156-60-5	
1,2-Dichloropropane	<14.0	ug/kg	58.7	14.0	1	06/06/22 08:45	06/06/22 14:57	78-87-5	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-28(0-4') **Lab ID: 40245897005** Collected: 06/02/22 10:00 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<12.8	ug/kg	58.7	12.8	1	06/06/22 08:45	06/06/22 14:57	142-28-9	
2,2-Dichloropropane	<15.9	ug/kg	58.7	15.9	1	06/06/22 08:45	06/06/22 14:57	594-20-7	
1,1-Dichloropropene	<19.0	ug/kg	58.7	19.0	1	06/06/22 08:45	06/06/22 14:57	563-58-6	
cis-1,3-Dichloropropene	<38.8	ug/kg	294	38.8	1	06/06/22 08:45	06/06/22 14:57	10061-01-5	
trans-1,3-Dichloropropene	<168	ug/kg	294	168	1	06/06/22 08:45	06/06/22 14:57	10061-02-6	
Diisopropyl ether	<14.6	ug/kg	58.7	14.6	1	06/06/22 08:45	06/06/22 14:57	108-20-3	
Ethylbenzene	<14.0	ug/kg	58.7	14.0	1	06/06/22 08:45	06/06/22 14:57	100-41-4	
Hexachloro-1,3-butadiene	<117	ug/kg	294	117	1	06/06/22 08:45	06/06/22 14:57	87-68-3	
Isopropylbenzene (Cumene)	<15.9	ug/kg	58.7	15.9	1	06/06/22 08:45	06/06/22 14:57	98-82-8	
p-Isopropyltoluene	<17.9	ug/kg	58.7	17.9	1	06/06/22 08:45	06/06/22 14:57	99-87-6	
Methylene Chloride	<16.3	ug/kg	58.7	16.3	1	06/06/22 08:45	06/06/22 14:57	75-09-2	
Methyl-tert-butyl ether	<17.3	ug/kg	58.7	17.3	1	06/06/22 08:45	06/06/22 14:57	1634-04-4	
Naphthalene	<18.3	ug/kg	294	18.3	1	06/06/22 08:45	06/06/22 14:57	91-20-3	
n-Propylbenzene	<14.1	ug/kg	58.7	14.1	1	06/06/22 08:45	06/06/22 14:57	103-65-1	
Styrene	<15.0	ug/kg	58.7	15.0	1	06/06/22 08:45	06/06/22 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	<14.1	ug/kg	58.7	14.1	1	06/06/22 08:45	06/06/22 14:57	630-20-6	
1,1,2,2-Tetrachloroethane	<21.3	ug/kg	58.7	21.3	1	06/06/22 08:45	06/06/22 14:57	79-34-5	
Tetrachloroethene	<22.8	ug/kg	58.7	22.8	1	06/06/22 08:45	06/06/22 14:57	127-18-4	
Toluene	<14.8	ug/kg	58.7	14.8	1	06/06/22 08:45	06/06/22 14:57	108-88-3	
1,2,3-Trichlorobenzene	<65.4	ug/kg	294	65.4	1	06/06/22 08:45	06/06/22 14:57	87-61-6	
1,2,4-Trichlorobenzene	<48.4	ug/kg	294	48.4	1	06/06/22 08:45	06/06/22 14:57	120-82-1	
1,1,1-Trichloroethane	<15.0	ug/kg	58.7	15.0	1	06/06/22 08:45	06/06/22 14:57	71-55-6	
1,1,2-Trichloroethane	<21.4	ug/kg	58.7	21.4	1	06/06/22 08:45	06/06/22 14:57	79-00-5	
Trichloroethene	<22.0	ug/kg	58.7	22.0	1	06/06/22 08:45	06/06/22 14:57	79-01-6	
Trichlorofluoromethane	<17.0	ug/kg	58.7	17.0	1	06/06/22 08:45	06/06/22 14:57	75-69-4	
1,2,3-Trichloropropane	<28.5	ug/kg	58.7	28.5	1	06/06/22 08:45	06/06/22 14:57	96-18-4	
1,2,4-Trimethylbenzene	<17.5	ug/kg	58.7	17.5	1	06/06/22 08:45	06/06/22 14:57	95-63-6	
1,3,5-Trimethylbenzene	<18.9	ug/kg	58.7	18.9	1	06/06/22 08:45	06/06/22 14:57	108-67-8	
Vinyl chloride	<11.9	ug/kg	58.7	11.9	1	06/06/22 08:45	06/06/22 14:57	75-01-4	
m&p-Xylene	<24.8	ug/kg	117	24.8	1	06/06/22 08:45	06/06/22 14:57	179601-23-1	
o-Xylene	<17.6	ug/kg	58.7	17.6	1	06/06/22 08:45	06/06/22 14:57	95-47-6	
Surrogates									
Toluene-d8 (S)	120	%	69-153		1	06/06/22 08:45	06/06/22 14:57	2037-26-5	
4-Bromofluorobenzene (S)	126	%	68-156		1	06/06/22 08:45	06/06/22 14:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	128	%	71-161		1	06/06/22 08:45	06/06/22 14:57	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	8.0	%	0.10	0.10	1		06/07/22 14:29		
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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-28(6-8') **Lab ID: 40245897006** Collected: 06/02/22 10:30 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.0J	mg/kg	3.1	1.8	1	06/06/22 07:29	06/06/22 18:23	7440-38-2	
Barium	86.5	mg/kg	0.62	0.19	1	06/06/22 07:29	06/06/22 18:23	7440-39-3	
Cadmium	0.17J	mg/kg	0.62	0.16	1	06/06/22 07:29	06/06/22 18:23	7440-43-9	
Chromium	34.5	mg/kg	1.2	0.34	1	06/06/22 07:29	06/06/22 18:23	7440-47-3	
Lead	9.7	mg/kg	2.5	0.74	1	06/06/22 07:29	06/06/22 18:23	7439-92-1	
Selenium	<1.6	mg/kg	5.0	1.6	1	06/06/22 07:29	06/06/22 18:23	7782-49-2	
Silver	<0.38	mg/kg	1.2	0.38	1	06/06/22 07:29	06/06/22 18:23	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.078	mg/kg	0.043	0.012	1	06/08/22 09:24	06/09/22 13:37	7439-97-6	1q
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<19.0	ug/kg	32.0	19.0	1	06/06/22 08:45	06/06/22 15:17	71-43-2	
Bromobenzene	<31.2	ug/kg	80.0	31.2	1	06/06/22 08:45	06/06/22 15:17	108-86-1	
Bromochloromethane	<21.9	ug/kg	80.0	21.9	1	06/06/22 08:45	06/06/22 15:17	74-97-5	
Bromodichloromethane	<19.0	ug/kg	80.0	19.0	1	06/06/22 08:45	06/06/22 15:17	75-27-4	
Bromoform	<352	ug/kg	400	352	1	06/06/22 08:45	06/06/22 15:17	75-25-2	
Bromomethane	<112	ug/kg	400	112	1	06/06/22 08:45	06/06/22 15:17	74-83-9	
n-Butylbenzene	<36.7	ug/kg	80.0	36.7	1	06/06/22 08:45	06/06/22 15:17	104-51-8	
sec-Butylbenzene	<19.5	ug/kg	80.0	19.5	1	06/06/22 08:45	06/06/22 15:17	135-98-8	
tert-Butylbenzene	<25.1	ug/kg	80.0	25.1	1	06/06/22 08:45	06/06/22 15:17	98-06-6	
Carbon tetrachloride	<17.6	ug/kg	80.0	17.6	1	06/06/22 08:45	06/06/22 15:17	56-23-5	L1
Chlorobenzene	<9.6	ug/kg	80.0	9.6	1	06/06/22 08:45	06/06/22 15:17	108-90-7	
Chloroethane	<33.8	ug/kg	400	33.8	1	06/06/22 08:45	06/06/22 15:17	75-00-3	
Chloroform	<57.3	ug/kg	400	57.3	1	06/06/22 08:45	06/06/22 15:17	67-66-3	
Chloromethane	<30.4	ug/kg	80.0	30.4	1	06/06/22 08:45	06/06/22 15:17	74-87-3	
2-Chlorotoluene	<25.9	ug/kg	80.0	25.9	1	06/06/22 08:45	06/06/22 15:17	95-49-8	
4-Chlorotoluene	<30.4	ug/kg	80.0	30.4	1	06/06/22 08:45	06/06/22 15:17	106-43-4	
1,2-Dibromo-3-chloropropane	<62.1	ug/kg	400	62.1	1	06/06/22 08:45	06/06/22 15:17	96-12-8	
Dibromochloromethane	<274	ug/kg	400	274	1	06/06/22 08:45	06/06/22 15:17	124-48-1	
1,2-Dibromoethane (EDB)	<21.9	ug/kg	80.0	21.9	1	06/06/22 08:45	06/06/22 15:17	106-93-4	
Dibromomethane	<23.7	ug/kg	80.0	23.7	1	06/06/22 08:45	06/06/22 15:17	74-95-3	
1,2-Dichlorobenzene	<24.8	ug/kg	80.0	24.8	1	06/06/22 08:45	06/06/22 15:17	95-50-1	
1,3-Dichlorobenzene	<21.9	ug/kg	80.0	21.9	1	06/06/22 08:45	06/06/22 15:17	541-73-1	
1,4-Dichlorobenzene	<21.9	ug/kg	80.0	21.9	1	06/06/22 08:45	06/06/22 15:17	106-46-7	
Dichlorodifluoromethane	<34.4	ug/kg	80.0	34.4	1	06/06/22 08:45	06/06/22 15:17	75-71-8	
1,1-Dichloroethane	<20.5	ug/kg	80.0	20.5	1	06/06/22 08:45	06/06/22 15:17	75-34-3	
1,2-Dichloroethane	<18.4	ug/kg	80.0	18.4	1	06/06/22 08:45	06/06/22 15:17	107-06-2	
1,1-Dichloroethene	<26.6	ug/kg	80.0	26.6	1	06/06/22 08:45	06/06/22 15:17	75-35-4	
cis-1,2-Dichloroethene	<17.1	ug/kg	80.0	17.1	1	06/06/22 08:45	06/06/22 15:17	156-59-2	
trans-1,2-Dichloroethene	<17.3	ug/kg	80.0	17.3	1	06/06/22 08:45	06/06/22 15:17	156-60-5	
1,2-Dichloropropane	<19.0	ug/kg	80.0	19.0	1	06/06/22 08:45	06/06/22 15:17	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40245897

Sample: B-28(6-8') **Lab ID: 40245897006** Collected: 06/02/22 10:30 Received: 06/03/22 09:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<17.4	ug/kg	80.0	17.4	1	06/06/22 08:45	06/06/22 15:17	142-28-9	
2,2-Dichloropropane	<21.6	ug/kg	80.0	21.6	1	06/06/22 08:45	06/06/22 15:17	594-20-7	
1,1-Dichloropropene	<25.9	ug/kg	80.0	25.9	1	06/06/22 08:45	06/06/22 15:17	563-58-6	
cis-1,3-Dichloropropene	<52.8	ug/kg	400	52.8	1	06/06/22 08:45	06/06/22 15:17	10061-01-5	
trans-1,3-Dichloropropene	<229	ug/kg	400	229	1	06/06/22 08:45	06/06/22 15:17	10061-02-6	
Diisopropyl ether	<19.8	ug/kg	80.0	19.8	1	06/06/22 08:45	06/06/22 15:17	108-20-3	
Ethylbenzene	<19.0	ug/kg	80.0	19.0	1	06/06/22 08:45	06/06/22 15:17	100-41-4	
Hexachloro-1,3-butadiene	<159	ug/kg	400	159	1	06/06/22 08:45	06/06/22 15:17	87-68-3	
Isopropylbenzene (Cumene)	<21.6	ug/kg	80.0	21.6	1	06/06/22 08:45	06/06/22 15:17	98-82-8	
p-Isopropyltoluene	<24.3	ug/kg	80.0	24.3	1	06/06/22 08:45	06/06/22 15:17	99-87-6	
Methylene Chloride	<22.2	ug/kg	80.0	22.2	1	06/06/22 08:45	06/06/22 15:17	75-09-2	
Methyl-tert-butyl ether	<23.5	ug/kg	80.0	23.5	1	06/06/22 08:45	06/06/22 15:17	1634-04-4	
Naphthalene	<25.0	ug/kg	400	25.0	1	06/06/22 08:45	06/06/22 15:17	91-20-3	
n-Propylbenzene	<19.2	ug/kg	80.0	19.2	1	06/06/22 08:45	06/06/22 15:17	103-65-1	
Styrene	<20.5	ug/kg	80.0	20.5	1	06/06/22 08:45	06/06/22 15:17	100-42-5	
1,1,1,2-Tetrachloroethane	<19.2	ug/kg	80.0	19.2	1	06/06/22 08:45	06/06/22 15:17	630-20-6	
1,1,2,2-Tetrachloroethane	<29.0	ug/kg	80.0	29.0	1	06/06/22 08:45	06/06/22 15:17	79-34-5	
Tetrachloroethene	<31.1	ug/kg	80.0	31.1	1	06/06/22 08:45	06/06/22 15:17	127-18-4	
Toluene	<20.2	ug/kg	80.0	20.2	1	06/06/22 08:45	06/06/22 15:17	108-88-3	
1,2,3-Trichlorobenzene	<89.2	ug/kg	400	89.2	1	06/06/22 08:45	06/06/22 15:17	87-61-6	
1,2,4-Trichlorobenzene	<65.9	ug/kg	400	65.9	1	06/06/22 08:45	06/06/22 15:17	120-82-1	
1,1,1-Trichloroethane	<20.5	ug/kg	80.0	20.5	1	06/06/22 08:45	06/06/22 15:17	71-55-6	
1,1,2-Trichloroethane	<29.1	ug/kg	80.0	29.1	1	06/06/22 08:45	06/06/22 15:17	79-00-5	
Trichloroethene	<29.9	ug/kg	80.0	29.9	1	06/06/22 08:45	06/06/22 15:17	79-01-6	
Trichlorofluoromethane	<23.2	ug/kg	80.0	23.2	1	06/06/22 08:45	06/06/22 15:17	75-69-4	
1,2,3-Trichloropropane	<38.9	ug/kg	80.0	38.9	1	06/06/22 08:45	06/06/22 15:17	96-18-4	
1,2,4-Trimethylbenzene	<23.9	ug/kg	80.0	23.9	1	06/06/22 08:45	06/06/22 15:17	95-63-6	
1,3,5-Trimethylbenzene	<25.8	ug/kg	80.0	25.8	1	06/06/22 08:45	06/06/22 15:17	108-67-8	
Vinyl chloride	<16.2	ug/kg	80.0	16.2	1	06/06/22 08:45	06/06/22 15:17	75-01-4	
m&p-Xylene	<33.8	ug/kg	160	33.8	1	06/06/22 08:45	06/06/22 15:17	179601-23-1	
o-Xylene	<24.0	ug/kg	80.0	24.0	1	06/06/22 08:45	06/06/22 15:17	95-47-6	
Surrogates									
Toluene-d8 (S)	122	%	69-153		1	06/06/22 08:45	06/06/22 15:17	2037-26-5	
4-Bromofluorobenzene (S)	130	%	68-156		1	06/06/22 08:45	06/06/22 15:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	138	%	71-161		1	06/06/22 08:45	06/06/22 15:17	2199-69-1	

Percent Moisture

Analytical Method: ASTM D2974-87
Pace Analytical Services - Green Bay

Percent Moisture	23.1	%	0.10	0.10	1		06/07/22 14:29		
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40245897

QC Batch: 417469 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245897001, 40245897002, 40245897003, 40245897004, 40245897005, 40245897006

METHOD BLANK: 2404223 Matrix: Solid
Associated Lab Samples: 40245897001, 40245897002, 40245897003, 40245897004, 40245897005, 40245897006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	06/06/22 17:46	
Barium	mg/kg	<0.15	0.50	06/06/22 17:46	
Cadmium	mg/kg	<0.13	0.50	06/06/22 17:46	
Chromium	mg/kg	<0.28	1.0	06/06/22 17:46	
Lead	mg/kg	<0.60	2.0	06/06/22 17:46	
Selenium	mg/kg	<1.3	4.0	06/06/22 17:46	
Silver	mg/kg	<0.31	1.0	06/06/22 17:46	

LABORATORY CONTROL SAMPLE: 2404224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	25.5	102	80-120	
Barium	mg/kg	25	25.8	103	80-120	
Cadmium	mg/kg	25	26.3	105	80-120	
Chromium	mg/kg	25	25.9	103	80-120	
Lead	mg/kg	25	26.6	107	80-120	
Selenium	mg/kg	25	26.6	106	80-120	
Silver	mg/kg	12.5	10.8	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2404225 2404226

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40245897001 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic	mg/kg	2.3J	28	28.2	28.9	29.8	95	98	75-125	3	20		
Barium	mg/kg	48.9	28	28.2	116	115	239	235	75-125	1	20	M0	
Cadmium	mg/kg	0.29J	28	28.2	29.3	29.8	103	105	75-125	2	20		
Chromium	mg/kg	36.2	28	28.2	62.2	63.8	92	98	75-125	3	20		
Lead	mg/kg	4.8	28	28.2	33.1	34.6	101	106	75-125	4	20		
Selenium	mg/kg	<1.5	28	28.2	26.5	27.1	94	96	75-125	2	20		
Silver	mg/kg	<0.35	14	14	12.6	12.8	88	90	75-125	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40245897

QC Batch: 417516 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245897001, 40245897002, 40245897003, 40245897004, 40245897005, 40245897006

METHOD BLANK: 2404340 Matrix: Solid
Associated Lab Samples: 40245897001, 40245897002, 40245897003, 40245897004, 40245897005, 40245897006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<12.0	50.0	06/06/22 09:23	
1,1,1-Trichloroethane	ug/kg	<12.8	50.0	06/06/22 09:23	
1,1,2,2-Tetrachloroethane	ug/kg	<18.1	50.0	06/06/22 09:23	
1,1,2-Trichloroethane	ug/kg	<18.2	50.0	06/06/22 09:23	
1,1-Dichloroethane	ug/kg	<12.8	50.0	06/06/22 09:23	
1,1-Dichloroethene	ug/kg	<16.6	50.0	06/06/22 09:23	
1,1-Dichloropropene	ug/kg	<16.2	50.0	06/06/22 09:23	
1,2,3-Trichlorobenzene	ug/kg	<55.7	250	06/06/22 09:23	
1,2,3-Trichloropropane	ug/kg	<24.3	50.0	06/06/22 09:23	
1,2,4-Trichlorobenzene	ug/kg	<41.2	250	06/06/22 09:23	
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	06/06/22 09:23	
1,2-Dibromo-3-chloropropane	ug/kg	<38.8	250	06/06/22 09:23	
1,2-Dibromoethane (EDB)	ug/kg	<13.7	50.0	06/06/22 09:23	
1,2-Dichlorobenzene	ug/kg	<15.5	50.0	06/06/22 09:23	
1,2-Dichloroethane	ug/kg	<11.5	50.0	06/06/22 09:23	
1,2-Dichloropropane	ug/kg	<11.9	50.0	06/06/22 09:23	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	06/06/22 09:23	
1,3-Dichlorobenzene	ug/kg	<13.7	50.0	06/06/22 09:23	
1,3-Dichloropropane	ug/kg	<10.9	50.0	06/06/22 09:23	
1,4-Dichlorobenzene	ug/kg	<13.7	50.0	06/06/22 09:23	
2,2-Dichloropropane	ug/kg	<13.5	50.0	06/06/22 09:23	
2-Chlorotoluene	ug/kg	<16.2	50.0	06/06/22 09:23	
4-Chlorotoluene	ug/kg	<19.0	50.0	06/06/22 09:23	
Benzene	ug/kg	<11.9	20.0	06/06/22 09:23	
Bromobenzene	ug/kg	<19.5	50.0	06/06/22 09:23	
Bromochloromethane	ug/kg	<13.7	50.0	06/06/22 09:23	
Bromodichloromethane	ug/kg	<11.9	50.0	06/06/22 09:23	
Bromoform	ug/kg	<220	250	06/06/22 09:23	
Bromomethane	ug/kg	<70.1	250	06/06/22 09:23	
Carbon tetrachloride	ug/kg	<11.0	50.0	06/06/22 09:23	
Chlorobenzene	ug/kg	<6.0	50.0	06/06/22 09:23	
Chloroethane	ug/kg	<21.1	250	06/06/22 09:23	
Chloroform	ug/kg	<35.8	250	06/06/22 09:23	
Chloromethane	ug/kg	<19.0	50.0	06/06/22 09:23	
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	06/06/22 09:23	
cis-1,3-Dichloropropene	ug/kg	<33.0	250	06/06/22 09:23	
Dibromochloromethane	ug/kg	<171	250	06/06/22 09:23	
Dibromomethane	ug/kg	<14.8	50.0	06/06/22 09:23	
Dichlorodifluoromethane	ug/kg	<21.5	50.0	06/06/22 09:23	
Diisopropyl ether	ug/kg	<12.4	50.0	06/06/22 09:23	

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40245897

METHOD BLANK: 2404340 Matrix: Solid
Associated Lab Samples: 40245897001, 40245897002, 40245897003, 40245897004, 40245897005, 40245897006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<11.9	50.0	06/06/22 09:23	
Hexachloro-1,3-butadiene	ug/kg	<99.4	250	06/06/22 09:23	
Isopropylbenzene (Cumene)	ug/kg	<13.5	50.0	06/06/22 09:23	
m&p-Xylene	ug/kg	<21.1	100	06/06/22 09:23	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	06/06/22 09:23	
Methylene Chloride	ug/kg	<13.9	50.0	06/06/22 09:23	
n-Butylbenzene	ug/kg	<22.9	50.0	06/06/22 09:23	
n-Propylbenzene	ug/kg	<12.0	50.0	06/06/22 09:23	
Naphthalene	ug/kg	<15.6	250	06/06/22 09:23	
o-Xylene	ug/kg	<15.0	50.0	06/06/22 09:23	
p-Isopropyltoluene	ug/kg	<15.2	50.0	06/06/22 09:23	
sec-Butylbenzene	ug/kg	<12.2	50.0	06/06/22 09:23	
Styrene	ug/kg	<12.8	50.0	06/06/22 09:23	
tert-Butylbenzene	ug/kg	<15.7	50.0	06/06/22 09:23	
Tetrachloroethene	ug/kg	<19.4	50.0	06/06/22 09:23	
Toluene	ug/kg	<12.6	50.0	06/06/22 09:23	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	06/06/22 09:23	
trans-1,3-Dichloropropene	ug/kg	<143	250	06/06/22 09:23	
Trichloroethene	ug/kg	<18.7	50.0	06/06/22 09:23	
Trichlorofluoromethane	ug/kg	<14.5	50.0	06/06/22 09:23	
Vinyl chloride	ug/kg	<10.1	50.0	06/06/22 09:23	
1,2-Dichlorobenzene-d4 (S)	%	117	71-161	06/06/22 09:23	
4-Bromofluorobenzene (S)	%	112	68-156	06/06/22 09:23	
Toluene-d8 (S)	%	109	69-153	06/06/22 09:23	

LABORATORY CONTROL SAMPLE: 2404341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	3260	130	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2640	106	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2460	99	70-130	
1,1-Dichloroethane	ug/kg	2500	2490	100	70-130	
1,1-Dichloroethene	ug/kg	2500	2780	111	77-120	
1,2,4-Trichlorobenzene	ug/kg	2500	2780	111	67-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	3170	127	70-130	
1,2-Dibromoethane (EDB)	ug/kg	2500	2680	107	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2770	111	70-130	
1,2-Dichloroethane	ug/kg	2500	3040	122	70-130	
1,2-Dichloropropane	ug/kg	2500	2340	93	80-123	
1,3-Dichlorobenzene	ug/kg	2500	2720	109	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2690	108	70-130	
Benzene	ug/kg	2500	2530	101	70-130	
Bromodichloromethane	ug/kg	2500	2930	117	70-130	
Bromoform	ug/kg	2500	2910	116	60-130	

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40245897

LABORATORY CONTROL SAMPLE: 2404341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/kg	2500	2900	116	45-153	
Carbon tetrachloride	ug/kg	2500	3510	141	70-130	L1
Chlorobenzene	ug/kg	2500	2690	108	70-130	
Chloroethane	ug/kg	2500	2120	85	55-160	
Chloroform	ug/kg	2500	2900	116	80-120	
Chloromethane	ug/kg	2500	1870	75	47-130	
cis-1,2-Dichloroethene	ug/kg	2500	2690	107	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2790	111	70-130	
Dibromochloromethane	ug/kg	2500	3110	124	70-130	
Dichlorodifluoromethane	ug/kg	2500	1790	72	16-83	
Ethylbenzene	ug/kg	2500	2540	102	80-120	
Isopropylbenzene (Cumene)	ug/kg	2500	2590	103	70-130	
m&p-Xylene	ug/kg	5000	5000	100	70-130	
Methyl-tert-butyl ether	ug/kg	2500	3090	124	65-130	
Methylene Chloride	ug/kg	2500	2690	108	70-130	
o-Xylene	ug/kg	2500	2570	103	70-130	
Styrene	ug/kg	2500	2640	105	70-130	
Tetrachloroethene	ug/kg	2500	2840	114	70-130	
Toluene	ug/kg	2500	2510	100	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	2860	114	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2780	111	70-130	
Trichloroethene	ug/kg	2500	2780	111	70-130	
Trichlorofluoromethane	ug/kg	2500	2960	118	70-130	
Vinyl chloride	ug/kg	2500	2100	84	59-114	
1,2-Dichlorobenzene-d4 (S)	%			115	71-161	
4-Bromofluorobenzene (S)	%			109	68-156	
Toluene-d8 (S)	%			107	69-153	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2404342 2404343

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40245783001 Result	Spike Conc.	Spike Conc.	MS Result								
1,1,1-Trichloroethane	ug/kg	<14.5	1050	1050	1450	1490	138	142	69-130	3	20	M1	
1,1,2,2-Tetrachloroethane	ug/kg	<20.6	1050	1050	1170	1200	112	114	70-130	2	20		
1,1,2-Trichloroethane	ug/kg	<20.7	1050	1050	1100	1180	104	112	70-130	7	20		
1,1-Dichloroethane	ug/kg	<14.5	1050	1050	1080	1120	103	107	70-130	4	20		
1,1-Dichloroethene	ug/kg	<18.9	1050	1050	1130	1250	108	119	55-120	10	22		
1,2,4-Trichlorobenzene	ug/kg	<46.8	1050	1050	1400	1350	132	127	67-130	3	20	M1	
1,2-Dibromo-3-chloropropane	ug/kg	<44.1	1050	1050	1380	1330	132	126	70-130	4	22	M1	
1,2-Dibromoethane (EDB)	ug/kg	<15.6	1050	1050	1170	1220	111	116	70-130	4	20		
1,2-Dichlorobenzene	ug/kg	<17.6	1050	1050	1240	1250	119	119	70-130	0	20		
1,2-Dichloroethane	ug/kg	<13.1	1050	1050	1290	1350	123	129	70-130	5	20		
1,2-Dichloropropane	ug/kg	<13.5	1050	1050	968	1010	92	96	80-123	4	20		
1,3-Dichlorobenzene	ug/kg	<15.6	1050	1050	1240	1230	118	117	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40245897

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2404342 2404343												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		40245783001	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,4-Dichlorobenzene	ug/kg	<15.6	1050	1050	1200	1250	115	119	70-130	4	20	
Benzene	ug/kg	<13.5	1050	1050	1120	1140	107	109	70-130	2	20	
Bromodichloromethane	ug/kg	<13.5	1050	1050	1280	1310	122	125	70-130	2	20	
Bromoform	ug/kg	<250	1050	1050	1360	1380	130	132	60-130	1	20	M1
Bromomethane	ug/kg	<79.7	1050	1050	1270	1250	121	119	38-153	2	20	
Carbon tetrachloride	ug/kg	<12.5	1050	1050	1550	1560	147	149	62-130	1	20	M0
Chlorobenzene	ug/kg	<6.8	1050	1050	1170	1190	111	113	70-130	2	20	
Chloroethane	ug/kg	<24.0	1050	1050	971	1040	93	99	53-160	7	24	
Chloroform	ug/kg	<40.7	1050	1050	1250	1280	119	122	80-120	3	20	M1
Chloromethane	ug/kg	<21.6	1050	1050	828	818	79	78	10-130	1	20	
cis-1,2-Dichloroethene	ug/kg	<12.2	1050	1050	1160	1180	111	112	70-130	1	20	
cis-1,3-Dichloropropene	ug/kg	<37.5	1050	1050	1170	1220	112	117	70-130	4	20	
Dibromochloromethane	ug/kg	<194	1050	1050	1350	1370	128	130	70-130	2	20	
Dichlorodifluoromethane	ug/kg	<24.4	1050	1050	750	772	71	74	10-83	3	31	
Ethylbenzene	ug/kg	<13.5	1050	1050	1110	1130	105	107	80-120	2	20	
Isopropylbenzene (Cumene)	ug/kg	<15.3	1050	1050	1150	1180	109	111	70-130	2	20	
m&p-Xylene	ug/kg	43.6J	2090	2090	2270	2350	106	110	70-130	4	20	
Methyl-tert-butyl ether	ug/kg	<16.7	1050	1050	1430	1400	136	134	66-130	2	20	M1
Methylene Chloride	ug/kg	<15.8	1050	1050	1200	1200	115	114	70-130	1	20	
o-Xylene	ug/kg	24.1J	1050	1050	1130	1190	105	111	70-130	5	20	
Styrene	ug/kg	<14.5	1050	1050	1160	1150	110	110	70-130	0	20	
Tetrachloroethene	ug/kg	<22.1	1050	1050	1260	1270	120	121	69-130	0	20	
Toluene	ug/kg	35.4J	1050	1050	1140	1190	105	110	79-120	5	20	
trans-1,2-Dichloroethene	ug/kg	<12.3	1050	1050	1290	1300	123	124	70-130	1	20	
trans-1,3-Dichloropropene	ug/kg	<163	1050	1050	1170	1180	111	112	69-130	1	20	
Trichloroethene	ug/kg	<21.3	1050	1050	1250	1270	119	122	70-130	2	20	
Trichlorofluoromethane	ug/kg	<16.5	1050	1050	1300	1330	124	127	50-130	3	22	
Vinyl chloride	ug/kg	<11.5	1050	1050	925	925	88	88	26-114	0	20	
1,2-Dichlorobenzene-d4 (S)	%						114	123	71-161			
4-Bromofluorobenzene (S)	%						110	119	68-156			
Toluene-d8 (S)	%						107	116	69-153			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013

Pace Project No.: 40245897

QC Batch: 417673

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40245897001, 40245897002, 40245897003, 40245897004, 40245897005, 40245897006

SAMPLE DUPLICATE: 2405038

Parameter	Units	40246030002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.8	5.5	4	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1162-013
Pace Project No.: 40245897

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

- 1q Analyte was measured in the associated method blank at a concentration of -0.011mg/kg.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1162-013
Pace Project No.: 40245897


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40245897001	B-26(0-4')	EPA 3050B	417469	EPA 6010D	417550
40245897002	B-26(6-8')	EPA 3050B	417469	EPA 6010D	417550
40245897003	B-27(0-4')	EPA 3050B	417469	EPA 6010D	417550
40245897004	B-27(6-8')	EPA 3050B	417469	EPA 6010D	417550
40245897005	B-28(0-4')	EPA 3050B	417469	EPA 6010D	417550
40245897006	B-28(6-8')	EPA 3050B	417469	EPA 6010D	417550
40245897001	B-26(0-4')	EPA 7471	417725	EPA 7471	417787
40245897002	B-26(6-8')	EPA 7471	417725	EPA 7471	417787
40245897003	B-27(0-4')	EPA 7471	417725	EPA 7471	417787
40245897004	B-27(6-8')	EPA 7471	417725	EPA 7471	417787
40245897005	B-28(0-4')	EPA 7471	417725	EPA 7471	417787
40245897006	B-28(6-8')	EPA 7471	417725	EPA 7471	417787
40245897001	B-26(0-4')	EPA 5035/5030B	417516	EPA 8260	417517
40245897002	B-26(6-8')	EPA 5035/5030B	417516	EPA 8260	417517
40245897003	B-27(0-4')	EPA 5035/5030B	417516	EPA 8260	417517
40245897004	B-27(6-8')	EPA 5035/5030B	417516	EPA 8260	417517
40245897005	B-28(0-4')	EPA 5035/5030B	417516	EPA 8260	417517
40245897006	B-28(6-8')	EPA 5035/5030B	417516	EPA 8260	417517
40245897001	B-26(0-4')	ASTM D2974-87	417673		
40245897002	B-26(6-8')	ASTM D2974-87	417673		
40245897003	B-27(0-4')	ASTM D2974-87	417673		
40245897004	B-27(6-8')	ASTM D2974-87	417673		
40245897005	B-28(0-4')	ASTM D2974-87	417673		
40245897006	B-28(6-8')	ASTM D2974-87	417673		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Client Name: REL
 Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: **WO# : 40245897**

 40245897

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 - 116 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 0 /Corr: 0.1
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 6/3/22 Initials: MP
 Labeled By Initials: MH

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
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>5</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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 login
 Page 22 of 22

Report Prepared for:

Brian Basten
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

June 29, 2022

Report Information:

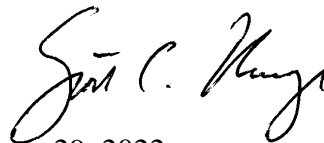
Pace Project #: 10611374
Sample Receipt Date: 06/04/2022
Client Project #: 40245897 Robert E Lee
Client Sub PO #: N/A
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



June 29, 2022

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on six samples submitted by a representative of Pace Wisconsin. The samples were analyzed for thirty-three perfluorinated compounds using Wisconsin DNR guidance. Reporting limits were set to MDL levels.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

A laboratory spike sample was also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. This spike indicates that extraction performed as expected. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

Diminished extracted internal standard (EIS) recovery ("R" flagged) were present in samples, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Selected samples have recoveries less than 1% for selected EIS. The results for these native compounds should be considered estimated.

The four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Values were flagged "I" where incorrect isotope ratios were obtained. Results that were below the calibration range were flagged "J".

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management



Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
B-26(0-4')	40245897001	06/04/2022	Solid
B-26(6-8')	40245897002	06/04/2022	Solid
B-27(0-4')	40245897003	06/04/2022	Solid
B-27(6-8')	40245897004	06/04/2022	Solid
B-28(0-4')	40245897005	06/04/2022	Solid
B-28(6-8')	40245897006	06/04/2022	Solid

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40245897001	B-26(0-4')	SW3535	33329	PFAS-36	Q220623C_02
40245897002	B-26(6-8')	SW3535	33329	PFAS-36	Q220623C_02
40245897003	B-27(0-4')	SW3535	33329	PFAS-36	Q220623C_02
40245897004	B-27(6-8')	SW3535	33329	PFAS-36	Q220627A_00
40245897005	B-28(0-4')	SW3535	33329	PFAS-36	Q220623C_02
40245897006	B-28(6-8')	SW3535	33329	PFAS-36	Q220623C_02

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Pace Analytical Services, LLC
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444
 www.pacelabs.com

Sample Analysis Summary
 PFAS by Isotope Dilution

Page 1 of 4

Client Sample ID	B-26(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897001	Total Amount Extracted	5.11g
Lab File ID	Q220623C_028	Percent Moisture	11.5569%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:45	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.09	0.02	0.02	1	375-22-4		06/24/2022 06:29
PFPeA	ND	0.09	0.02	0.02	1	2706-90-3		06/24/2022 06:29
HFPO-DA	ND	0.09	0.02	0.02	1	13252-13-6		06/24/2022 06:29
PFBS	ND	0.08	0.02	0.02	1	375-73-5		06/24/2022 06:29
PFHxA	ND	0.09	0.02	0.02	1	307-24-4		06/24/2022 06:29
4:2 FTS	ND	0.09	0.03	0.03	1	757124-72-4		06/24/2022 06:29
PFPeS	ND	0.09	0.01	0.01	1	2706-91-4		06/24/2022 06:29
PFHpA	ND	0.09	0.02	0.02	1	375-85-9		06/24/2022 06:29
DONA	ND	0.09	0.03	0.03	1	919005-14-4		06/24/2022 06:29
PFHxS	0.026 J	0.08	0.02	0.02	1	355-46-4		06/24/2022 06:29
PFOA	0.048 J	0.09	0.02	0.02	1	335-67-1		06/24/2022 06:29
6:2 FTS	ND	0.09	0.03	0.03	1	27619-97-2		06/24/2022 06:29
PFHpS	0.034 J	0.09	0.02	0.02	1	375-92-8		06/24/2022 06:29
PFNA	0.035 J	0.09	0.02	0.02	1	375-95-1		06/24/2022 06:29
PFOSAm	ND	0.09	0.02	0.02	1	754-91-6		06/24/2022 06:29
PFOS	2.1	0.09	0.02	0.02	1	1763-23-1		06/24/2022 06:29
MeFOSA	ND	0.09	0.02	0.02	1	31506-32-8		06/24/2022 06:29
PFDA	ND	0.09	0.02	0.02	1	335-76-2		06/24/2022 06:29
EtFOSAm	ND	0.09	0.02	0.02	1	4151-50-2		06/24/2022 06:29
8:2 FTS	0.096	0.09	0.02	0.02	1	39108-34-4		06/24/2022 06:29
9-CI-PF3ON	ND	0.09	0.01	0.01	1	756426-58-1		06/24/2022 06:29
PFNS	ND	0.09	0.01	0.01	1	68259-12-1		06/24/2022 06:29
PFUnDA	ND	0.09	0.02	0.02	1	2058-94-8		06/24/2022 06:29
NMeFOSAA	ND	0.09	0.02	0.02	1	2355-31-9		06/24/2022 06:29
NEtFOSAA	ND	0.09	0.02	0.02	1	2991-50-6		06/24/2022 06:29
PFDS	ND	0.09	0.02	0.02	1	335-77-3		06/24/2022 06:29
PFDOA	ND	0.09	0.02	0.02	1	307-55-1		06/24/2022 06:29
MeFOSE	ND	0.09	0.02	0.02	1	24448-09-7		06/24/2022 06:29
EtFOSE	ND	0.09	0.02	0.02	1	1691-99-2		06/24/2022 06:29
11-CI-PF3OUdS	ND	0.09	0.01	0.01	1	763051-92-9		06/24/2022 06:29
PFTTrDA	ND	0.09	0.02	0.02	1	72629-94-8		06/24/2022 06:29
PFDoS	ND	0.09	0.02	0.02	1	79780-39-5		06/24/2022 06:29
PFTDA	ND	0.09	0.03	0.03	1	376-06-7		06/24/2022 06:29

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-26(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897001	Total Amount Extracted	5.11g
Lab File ID	Q220623C_028	Percent Moisture	11.5569%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:45	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.96	98	50-150		06/24/2022 06:29
13C4 PFOA	0.98	1.1	115	50-150		06/24/2022 06:29
13C2 PFDA	0.98	1.3	132	50-150		06/24/2022 06:29
13C4 PFOS	0.94	0.89	95	50-150		06/24/2022 06:29

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.80	81	25-150		06/24/2022 06:29
13C5 PFPeA	0.98	0.85	87	25-150		06/24/2022 06:29
13C3 PFBS	0.91	0.94	104	25-150		06/24/2022 06:29
13C2 4:2FTS	0.92	0.74	81	25-150		06/24/2022 06:29
13C5 PFHxA	0.98	0.79	81	25-150		06/24/2022 06:29
13C4 PFHpA	0.98	0.82	83	25-150		06/24/2022 06:29
13C3 PFHxS	0.93	0.77	83	25-150		06/24/2022 06:29
13C2 6:2FTS	0.93	0.81	87	25-150		06/24/2022 06:29
13C8 PFOA	0.98	0.79	81	25-150		06/24/2022 06:29
13C9 PFNA	0.98	0.69	70	25-150		06/24/2022 06:29
13C8 PFOS	0.94	0.74	79	25-150		06/24/2022 06:29
13C2 8:2FTS	0.94	0.63	67	25-150		06/24/2022 06:29
13C6 PFDA	0.98	0.84	86	25-150		06/24/2022 06:29
d3-MeFOSAA	0.98	0.67	68	25-150		06/24/2022 06:29
13C8 PFOSA	0.98	0.22	22	25-150	R	06/24/2022 06:29
d5-EtFOSAA	0.98	0.57	59	25-150		06/24/2022 06:29
13C7 PFUdA	0.98	0.77	79	25-150		06/24/2022 06:29
13C2 PFDoA	0.98	0.75	77	25-150		06/24/2022 06:29
13C2 PFTeDA	0.98	0.79	81	25-150		06/24/2022 06:29
13C3 HFPO-DA	0.98	0.86	88	25-150		06/24/2022 06:29
d7-N-MeFOSE	0.98	0.098	10	10-150		06/24/2022 06:29
d9-N-EtFOSE	0.98	0.13	13	10-150		06/24/2022 06:29
d3-N-MeFOSA	0.98	0.00045	0	10-150	R	06/24/2022 06:29
d5-N-EtFOSA	0.98	0.00070	0	10-150	R	06/24/2022 06:29

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-26(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897001	Total Amount Extracted	5.11g
Lab File ID	Q220623C_028	Percent Moisture	11.5569%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:45	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	1231		06/24/2022 06:29
13C4 PFOA	N/A	N/A	7.49	7.44	1471		06/24/2022 06:29
13C2 PFDA	N/A	N/A	8.77	8.74	1164		06/24/2022 06:29
13C4 PFOS	N/A	N/A	9.19	9.16	1298		06/24/2022 06:29

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.73	1731		06/24/2022 06:29
13C5 PFPeA	N/A	N/A	5.52	5.51	1835		06/24/2022 06:29
13C3 PFBS	N/A	N/A	6.42	6.41	1868		06/24/2022 06:29
13C2 4:2FTS	N/A	N/A	5.91	5.91	328		06/24/2022 06:29
13C5 PFHxA	N/A	N/A	6.19	6.17	1139		06/24/2022 06:29
13C4 PFHpA	N/A	N/A	6.84	6.80	994		06/24/2022 06:29
13C3 PFHxS	N/A	N/A	7.85	7.84	951		06/24/2022 06:29
13C2 6:2FTS	N/A	N/A	7.16	7.16	412		06/24/2022 06:29
13C8 PFOA	N/A	N/A	7.49	7.43	1579		06/24/2022 06:29
13C9 PFNA	N/A	N/A	8.13	8.13	1574		06/24/2022 06:29
13C8 PFOS	N/A	N/A	9.19	9.17	900		06/24/2022 06:29
13C2 8:2FTS	N/A	N/A	8.42	8.38	18527		06/24/2022 06:29
13C6 PFDA	N/A	N/A	8.78	8.75	1421		06/24/2022 06:29
d3-MeFOSAA	N/A	N/A	8.69	8.65	1571		06/24/2022 06:29
13C8 PFOSA	N/A	N/A	11.28	11.25	971	R	06/24/2022 06:29
d5-EtFOSAA	N/A	N/A	8.99	8.95	401		06/24/2022 06:29
13C7 PFUdA	N/A	N/A	9.43	9.40	1426		06/24/2022 06:29
13C2 PFDoA	N/A	N/A	10.07	10.05	747		06/24/2022 06:29
13C2 PFTeDA	N/A	N/A	11.34	11.30	903		06/24/2022 06:29
13C3 HFPO-DA	N/A	N/A	6.46	6.43	1224		06/24/2022 06:29
d7-N-MeFOSE	N/A	N/A	12.97	12.95	124		06/24/2022 06:29
d9-N-EtFOSE	N/A	N/A	13.45	13.43	213		06/24/2022 06:29
d3-N-MeFOSA	N/A	N/A	13.15	13.16	27	R	06/24/2022 06:29
d5-N-EtFOSA	N/A	N/A	13.60	13.60	21	R	06/24/2022 06:29

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-26(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897001	Total Amount Extracted	5.11g
Lab File ID	Q220623C_028	Percent Moisture	11.5569%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:45	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.75	4.77	ND		06/24/2022 06:29
PFPeA	N/A	N/A	5.53	5.54	ND		06/24/2022 06:29
HFPO-DA	0.00	0.33	0.00	6.44	ND		06/24/2022 06:29
PFBS	0.32	0.29	6.42	6.40	ND		06/24/2022 06:29
PFHxA	0.00	0.09	0.00	6.17	ND		06/24/2022 06:29
4:2 FTS	0.00	0.96	0.00	5.91	ND		06/24/2022 06:29
PFPeS	0.46	0.41	7.17	7.12	ND		06/24/2022 06:29
PFHpA	0.18	0.50	6.84	6.81	ND		06/24/2022 06:29
DONA	0.00	0.45	0.00	7.04	ND		06/24/2022 06:29
PFHxS	0.40	0.33	7.86	7.82	256	J	06/24/2022 06:29
PFOA	0.31	0.37	7.50	7.44	46	J	06/24/2022 06:29
6:2 FTS	2.40	1.10	7.16	7.12	ND		06/24/2022 06:29
PFHpS	0.51	0.43	8.54	8.51	112	J	06/24/2022 06:29
PFNA	0.19	0.22	8.14	8.10	106	J	06/24/2022 06:29
PFOSAm	N/A	N/A	11.29	11.26	ND		06/24/2022 06:29
PFOS	0.24	0.20	9.12	9.18	178		06/24/2022 06:29
MeFOSA	0.00	0.48	0.00	13.17	ND		06/24/2022 06:29
PFDA	0.00	0.16	0.00	8.75	ND		06/24/2022 06:29
EtFOSAm	0.00	0.39	0.00	13.62	ND		06/24/2022 06:29
8:2 FTS	1.00	1.80	8.42	8.38	3180		06/24/2022 06:29
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/24/2022 06:29
PFNS	0.00	0.23	0.00	9.83	ND		06/24/2022 06:29
PFUnDA	0.00	0.19	0.00	9.40	ND		06/24/2022 06:29
NMeFOSAA	0.00	0.72	0.00	8.66	ND		06/24/2022 06:29
NEtFOSAA	0.00	0.48	0.00	8.96	ND		06/24/2022 06:29
PFDS	0.00	0.23	0.00	10.47	ND		06/24/2022 06:29
PFDOA	0.00	0.18	0.00	10.05	ND		06/24/2022 06:29
MeFOSE	N/A	N/A	0.00	13.01	ND		06/24/2022 06:29
EtFOSE	0.00	0.00	0.00	13.49	ND		06/24/2022 06:29
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/24/2022 06:29
PFTTrDA	0.00	0.20	0.00	10.69	ND		06/24/2022 06:29
PFDoS	0.00	0.25	0.00	11.64	ND		06/24/2022 06:29
PFTDA	0.00	0.15	0.00	11.30	ND		06/24/2022 06:29

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-26(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897002	Total Amount Extracted	5.31g
Lab File ID	Q220623C_029	Percent Moisture	21.1278%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 12:20	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.09	0.02	0.02	1	375-22-4		06/24/2022 06:48
PFPeA	ND	0.09	0.02	0.02	1	2706-90-3		06/24/2022 06:48
HFPO-DA	ND	0.09	0.02	0.02	1	13252-13-6		06/24/2022 06:48
PFBS	ND	0.08	0.02	0.02	1	375-73-5		06/24/2022 06:48
PFHxA	ND	0.09	0.02	0.02	1	307-24-4		06/24/2022 06:48
4:2 FTS	ND	0.08	0.03	0.03	1	757124-72-4		06/24/2022 06:48
PFPeS	ND	0.08	0.01	0.01	1	2706-91-4		06/24/2022 06:48
PFHpA	ND	0.09	0.02	0.02	1	375-85-9		06/24/2022 06:48
DONA	ND	0.08	0.03	0.03	1	919005-14-4		06/24/2022 06:48
PFHxS	0.053 J	0.08	0.02	0.02	1	355-46-4		06/24/2022 06:48
PFOA	0.043 J	0.09	0.02	0.02	1	335-67-1		06/24/2022 06:48
6:2 FTS	0.039 J	0.09	0.03	0.03	1	27619-97-2		06/24/2022 06:48
PFHpS	0.034 J	0.09	0.02	0.02	1	375-92-8		06/24/2022 06:48
PFNA	ND	0.09	0.02	0.02	1	375-95-1		06/24/2022 06:48
PFOSAm	ND	0.09	0.02	0.02	1	754-91-6		06/24/2022 06:48
PFOS	2.0	0.08	0.02	0.02	1	1763-23-1		06/24/2022 06:48
MeFOSA	ND	0.09	0.02	0.02	1	31506-32-8		06/24/2022 06:48
PFDA	ND	0.09	0.02	0.02	1	335-76-2		06/24/2022 06:48
EtFOSAm	ND	0.09	0.02	0.02	1	4151-50-2		06/24/2022 06:48
8:2 FTS	0.042 J	0.09	0.02	0.02	1	39108-34-4		06/24/2022 06:48
9-CI-PF3ON	ND	0.08	0.01	0.01	1	756426-58-1		06/24/2022 06:48
PFNS	ND	0.09	0.01	0.01	1	68259-12-1		06/24/2022 06:48
PFUnDA	ND	0.09	0.02	0.02	1	2058-94-8		06/24/2022 06:48
NMeFOSAA	ND	0.09	0.02	0.02	1	2355-31-9		06/24/2022 06:48
NEtFOSAA	ND	0.09	0.02	0.02	1	2991-50-6		06/24/2022 06:48
PFDS	ND	0.09	0.02	0.02	1	335-77-3		06/24/2022 06:48
PFDOA	ND	0.09	0.02	0.02	1	307-55-1		06/24/2022 06:48
MeFOSE	ND	0.09	0.02	0.02	1	24448-09-7		06/24/2022 06:48
EtFOSE	ND	0.09	0.02	0.02	1	1691-99-2		06/24/2022 06:48
11-CI-PF3OUdS	ND	0.08	0.01	0.01	1	763051-92-9		06/24/2022 06:48
PFTTrDA	ND	0.09	0.02	0.02	1	72629-94-8		06/24/2022 06:48
PFDoS	ND	0.09	0.02	0.02	1	79780-39-5		06/24/2022 06:48
PFTDA	ND	0.09	0.03	0.03	1	376-06-7		06/24/2022 06:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-26(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897002	Total Amount Extracted	5.31g
Lab File ID	Q220623C_029	Percent Moisture	21.1278%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 12:20	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.94	1.3	134	50-150		06/24/2022 06:48
13C4 PFOA	0.94	1.1	121	50-150		06/24/2022 06:48
13C2 PFDA	0.94	1.4	150	50-150		06/24/2022 06:48
13C4 PFOS	0.90	0.99	110	50-150		06/24/2022 06:48

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.94	1.0	107	25-150		06/24/2022 06:48
13C5 PFPeA	0.94	0.99	105	25-150		06/24/2022 06:48
13C3 PFBS	0.88	0.94	107	25-150		06/24/2022 06:48
13C2 4:2FTS	0.88	0.84	95	25-150		06/24/2022 06:48
13C5 PFHxA	0.94	0.89	94	25-150		06/24/2022 06:48
13C4 PFHpA	0.94	0.98	104	25-150		06/24/2022 06:48
13C3 PFHxS	0.89	0.83	93	25-150		06/24/2022 06:48
13C2 6:2FTS	0.89	0.91	101	25-150		06/24/2022 06:48
13C8 PFOA	0.94	0.82	87	25-150		06/24/2022 06:48
13C9 PFNA	0.94	0.81	86	25-150		06/24/2022 06:48
13C8 PFOS	0.90	0.88	98	25-150		06/24/2022 06:48
13C2 8:2FTS	0.90	0.61	68	25-150		06/24/2022 06:48
13C6 PFDA	0.94	0.89	95	25-150		06/24/2022 06:48
d3-MeFOSAA	0.94	0.93	98	25-150		06/24/2022 06:48
13C8 PFOSA	0.94	0.51	54	25-150		06/24/2022 06:48
d5-EtFOSAA	0.94	0.71	75	25-150		06/24/2022 06:48
13C7 PFUdA	0.94	0.85	90	25-150		06/24/2022 06:48
13C2 PFDoA	0.94	0.82	87	25-150		06/24/2022 06:48
13C2 PFTeDA	0.94	0.95	101	25-150		06/24/2022 06:48
13C3 HFPO-DA	0.94	0.96	102	25-150		06/24/2022 06:48
d7-N-MeFOSE	0.94	0.28	29	10-150		06/24/2022 06:48
d9-N-EtFOSE	0.94	0.28	30	10-150		06/24/2022 06:48
d3-N-MeFOSA	0.94	0.017	2	10-150	R	06/24/2022 06:48
d5-N-EtFOSA	0.94	0.019	2	10-150	R	06/24/2022 06:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-26(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897002	Total Amount Extracted	5.31g
Lab File ID	Q220623C_029	Percent Moisture	21.1278%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 12:20	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	1542		06/24/2022 06:48
13C4 PFOA	N/A	N/A	7.49	7.44	1799		06/24/2022 06:48
13C2 PFDA	N/A	N/A	8.78	8.74	1812		06/24/2022 06:48
13C4 PFOS	N/A	N/A	9.20	9.16	1027		06/24/2022 06:48

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.73	2104		06/24/2022 06:48
13C5 PFPeA	N/A	N/A	5.53	5.51	1770		06/24/2022 06:48
13C3 PFBS	N/A	N/A	6.42	6.41	902		06/24/2022 06:48
13C2 4:2FTS	N/A	N/A	5.92	5.91	396		06/24/2022 06:48
13C5 PFHxA	N/A	N/A	6.19	6.17	1632		06/24/2022 06:48
13C4 PFHpA	N/A	N/A	6.85	6.80	1137		06/24/2022 06:48
13C3 PFHxS	N/A	N/A	7.86	7.84	1250		06/24/2022 06:48
13C2 6:2FTS	N/A	N/A	7.16	7.16	876		06/24/2022 06:48
13C8 PFOA	N/A	N/A	7.49	7.43	1150		06/24/2022 06:48
13C9 PFNA	N/A	N/A	8.13	8.13	1660		06/24/2022 06:48
13C8 PFOS	N/A	N/A	9.20	9.17	847		06/24/2022 06:48
13C2 8:2FTS	N/A	N/A	8.42	8.38	32511		06/24/2022 06:48
13C6 PFDA	N/A	N/A	8.78	8.75	1334		06/24/2022 06:48
d3-MeFOSAA	N/A	N/A	8.69	8.65	1334		06/24/2022 06:48
13C8 PFOSA	N/A	N/A	11.29	11.25	897		06/24/2022 06:48
d5-EtFOSAA	N/A	N/A	9.00	8.95	575		06/24/2022 06:48
13C7 PFUdA	N/A	N/A	9.43	9.40	1363		06/24/2022 06:48
13C2 PFDoA	N/A	N/A	10.09	10.05	718		06/24/2022 06:48
13C2 PFTeDA	N/A	N/A	11.36	11.30	979		06/24/2022 06:48
13C3 HFPO-DA	N/A	N/A	6.46	6.43	1506		06/24/2022 06:48
d7-N-MeFOSE	N/A	N/A	12.98	12.95	342		06/24/2022 06:48
d9-N-EtFOSE	N/A	N/A	13.46	13.43	275		06/24/2022 06:48
d3-N-MeFOSA	N/A	N/A	13.18	13.16	1352	R	06/24/2022 06:48
d5-N-EtFOSA	N/A	N/A	13.63	13.60	183	R	06/24/2022 06:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-26(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897002	Total Amount Extracted	5.31g
Lab File ID	Q220623C_029	Percent Moisture	21.1278%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 12:20	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.77	4.77	ND		06/24/2022 06:48
PFPeA	N/A	N/A	5.54	5.54	ND		06/24/2022 06:48
HFPO-DA	0.00	0.33	0.00	6.44	ND		06/24/2022 06:48
PFBS	0.33	0.29	6.42	6.40	ND		06/24/2022 06:48
PFHxA	0.08	0.09	6.20	6.17	ND		06/24/2022 06:48
4:2 FTS	0.00	0.96	0.00	5.91	ND		06/24/2022 06:48
PFPeS	0.39	0.41	7.17	7.12	ND		06/24/2022 06:48
PFHpA	0.61	0.50	6.85	6.81	ND		06/24/2022 06:48
DONA	0.00	0.45	7.09	7.04	ND		06/24/2022 06:48
PFHxS	0.34	0.33	7.86	7.82	385	J	06/24/2022 06:48
PFOA	0.32	0.37	7.50	7.44	57	J	06/24/2022 06:48
6:2 FTS	1.50	1.10	7.16	7.12	35	J	06/24/2022 06:48
PFHpS	0.45	0.43	8.55	8.51	192	J	06/24/2022 06:48
PFNA	0.00	0.22	8.14	8.10	ND		06/24/2022 06:48
PFOSAm	N/A	N/A	11.31	11.26	ND		06/24/2022 06:48
PFOS	0.19	0.20	9.00	9.18	217		06/24/2022 06:48
MeFOSA	0.00	0.48	0.00	13.17	ND		06/24/2022 06:48
PFDA	0.00	0.16	0.00	8.75	ND		06/24/2022 06:48
EtFOSAm	0.00	0.39	0.00	13.62	ND		06/24/2022 06:48
8:2 FTS	1.30	1.80	8.42	8.38	4403	J	06/24/2022 06:48
9-CI-PF3ON	0.00	0.04	0.00	9.66	ND		06/24/2022 06:48
PFNS	0.00	0.23	0.00	9.83	ND		06/24/2022 06:48
PFUnDA	0.00	0.19	0.00	9.40	ND		06/24/2022 06:48
NMeFOSAA	0.00	0.72	0.00	8.66	ND		06/24/2022 06:48
NEtFOSAA	0.00	0.48	0.00	8.96	ND		06/24/2022 06:48
PFDS	0.00	0.23	0.00	10.47	ND		06/24/2022 06:48
PFDOA	0.00	0.18	0.00	10.05	ND		06/24/2022 06:48
MeFOSE	N/A	N/A	13.00	13.01	ND		06/24/2022 06:48
EtFOSE	0.00	0.00	0.00	13.49	ND		06/24/2022 06:48
11-CI-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/24/2022 06:48
PFTTrDA	0.00	0.20	0.00	10.69	ND		06/24/2022 06:48
PFDoS	0.00	0.25	0.00	11.64	ND		06/24/2022 06:48
PFTDA	0.00	0.15	10.96	11.30	ND		06/24/2022 06:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897003	Total Amount Extracted	5.18g
Lab File ID	Q220623C_030	Percent Moisture	15.9874%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.09	0.02	0.02	1	375-22-4		06/24/2022 07:06
PFPeA	ND	0.09	0.02	0.02	1	2706-90-3		06/24/2022 07:06
HFPO-DA	ND	0.09	0.02	0.02	1	13252-13-6		06/24/2022 07:06
PFBS	ND	0.08	0.02	0.02	1	375-73-5		06/24/2022 07:06
PFHxA	ND	0.09	0.02	0.02	1	307-24-4		06/24/2022 07:06
4:2 FTS	ND	0.09	0.03	0.03	1	757124-72-4		06/24/2022 07:06
PFPeS	ND	0.09	0.01	0.01	1	2706-91-4		06/24/2022 07:06
PFHpA	ND	0.09	0.02	0.02	1	375-85-9		06/24/2022 07:06
DONA	ND	0.09	0.03	0.03	1	919005-14-4		06/24/2022 07:06
PFHxS	ND	0.08	0.02	0.02	1	355-46-4		06/24/2022 07:06
PFOA	0.059 IJ	0.09	0.02	0.02	1	335-67-1		06/24/2022 07:06
6:2 FTS	ND	0.09	0.03	0.03	1	27619-97-2		06/24/2022 07:06
PFHpS	ND	0.09	0.02	0.02	1	375-92-8		06/24/2022 07:06
PFNA	ND	0.09	0.02	0.02	1	375-95-1		06/24/2022 07:06
PFOSAm	ND	0.09	0.02	0.02	1	754-91-6		06/24/2022 07:06
PFOS	0.087 J	0.08	0.02	0.02	1	1763-23-1		06/24/2022 07:06
MeFOSA	ND	0.09	0.02	0.02	1	31506-32-8		06/24/2022 07:06
PFDA	ND	0.09	0.02	0.02	1	335-76-2		06/24/2022 07:06
EtFOSAm	ND	0.09	0.02	0.02	1	4151-50-2		06/24/2022 07:06
8:2 FTS	ND	0.09	0.02	0.02	1	39108-34-4		06/24/2022 07:06
9-CI-PF3ON	ND	0.09	0.01	0.01	1	756426-58-1		06/24/2022 07:06
PFNS	ND	0.09	0.01	0.01	1	68259-12-1		06/24/2022 07:06
PFUnDA	ND	0.09	0.02	0.02	1	2058-94-8		06/24/2022 07:06
NMeFOSAA	ND	0.09	0.02	0.02	1	2355-31-9		06/24/2022 07:06
NEtFOSAA	ND	0.09	0.02	0.02	1	2991-50-6		06/24/2022 07:06
PFDS	ND	0.09	0.02	0.02	1	335-77-3		06/24/2022 07:06
PFDOA	ND	0.09	0.02	0.02	1	307-55-1		06/24/2022 07:06
MeFOSE	ND	0.09	0.02	0.02	1	24448-09-7		06/24/2022 07:06
EtFOSE	ND	0.09	0.02	0.02	1	1691-99-2		06/24/2022 07:06
11-CI-PF3OUdS	ND	0.09	0.01	0.01	1	763051-92-9		06/24/2022 07:06
PFTTrDA	ND	0.09	0.02	0.02	1	72629-94-8		06/24/2022 07:06
PFDoS	ND	0.09	0.02	0.02	1	79780-39-5		06/24/2022 07:06
PFTDA	ND	0.09	0.03	0.03	1	376-06-7		06/24/2022 07:06

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897003	Total Amount Extracted	5.18g
Lab File ID	Q220623C_030	Percent Moisture	15.9874%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.96	0.97	101	50-150		06/24/2022 07:06
13C4 PFOA	0.96	1.1	111	50-150		06/24/2022 07:06
13C2 PFDA	0.96	1.1	117	50-150		06/24/2022 07:06
13C4 PFOS	0.92	0.96	104	50-150		06/24/2022 07:06

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.96	0.81	84	25-150		06/24/2022 07:06
13C5 PFPeA	0.96	0.81	84	25-150		06/24/2022 07:06
13C3 PFBS	0.90	0.91	102	25-150		06/24/2022 07:06
13C2 4:2FTS	0.90	0.90	100	25-150		06/24/2022 07:06
13C5 PFHxA	0.96	0.75	77	25-150		06/24/2022 07:06
13C4 PFHpA	0.96	0.73	75	25-150		06/24/2022 07:06
13C3 PFHxS	0.91	0.76	83	25-150		06/24/2022 07:06
13C2 6:2FTS	0.92	1.1	122	25-150		06/24/2022 07:06
13C8 PFOA	0.96	0.77	80	25-150		06/24/2022 07:06
13C9 PFNA	0.96	0.73	76	25-150		06/24/2022 07:06
13C8 PFOS	0.92	0.75	81	25-150		06/24/2022 07:06
13C2 8:2FTS	0.92	0.67	72	25-150		06/24/2022 07:06
13C6 PFDA	0.96	0.68	71	25-150		06/24/2022 07:06
d3-MeFOSAA	0.96	0.78	81	25-150		06/24/2022 07:06
13C8 PFOSA	0.96	0.29	30	25-150		06/24/2022 07:06
d5-EtFOSAA	0.96	0.72	74	25-150		06/24/2022 07:06
13C7 PFUdA	0.96	0.82	85	25-150		06/24/2022 07:06
13C2 PFDaA	0.96	0.88	91	25-150		06/24/2022 07:06
13C2 PFTeDA	0.96	0.98	102	25-150		06/24/2022 07:06
13C3 HFPO-DA	0.96	0.81	84	25-150		06/24/2022 07:06
d7-N-MeFOSE	0.96	0.12	12	10-150		06/24/2022 07:06
d9-N-EtFOSE	0.96	0.15	15	10-150		06/24/2022 07:06
d3-N-MeFOSA	0.96	0.0051	1	10-150	R	06/24/2022 07:06
d5-N-EtFOSA	0.96	0.0063	1	10-150	R	06/24/2022 07:06

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897003	Total Amount Extracted	5.18g
Lab File ID	Q220623C_030	Percent Moisture	15.9874%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	1476		06/24/2022 07:06
13C4 PFOA	N/A	N/A	7.49	7.44	1740		06/24/2022 07:06
13C2 PFDA	N/A	N/A	8.77	8.74	2003		06/24/2022 07:06
13C4 PFOS	N/A	N/A	9.19	9.16	895		06/24/2022 07:06

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.73	1910		06/24/2022 07:06
13C5 PFPeA	N/A	N/A	5.52	5.51	1327		06/24/2022 07:06
13C3 PFBS	N/A	N/A	6.41	6.41	844		06/24/2022 07:06
13C2 4:2FTS	N/A	N/A	5.91	5.91	359		06/24/2022 07:06
13C5 PFHxA	N/A	N/A	6.19	6.17	1338		06/24/2022 07:06
13C4 PFHpA	N/A	N/A	6.84	6.80	1014		06/24/2022 07:06
13C3 PFHxS	N/A	N/A	7.85	7.84	1265		06/24/2022 07:06
13C2 6:2FTS	N/A	N/A	7.16	7.16	589		06/24/2022 07:06
13C8 PFOA	N/A	N/A	7.48	7.43	1336		06/24/2022 07:06
13C9 PFNA	N/A	N/A	8.13	8.13	1688		06/24/2022 07:06
13C8 PFOS	N/A	N/A	9.19	9.17	863		06/24/2022 07:06
13C2 8:2FTS	N/A	N/A	8.41	8.38	1073		06/24/2022 07:06
13C6 PFDA	N/A	N/A	8.77	8.75	1942		06/24/2022 07:06
d3-MeFOSAA	N/A	N/A	8.69	8.65	1839		06/24/2022 07:06
13C8 PFOSA	N/A	N/A	11.28	11.25	1063		06/24/2022 07:06
d5-EtFOSAA	N/A	N/A	8.99	8.95	652		06/24/2022 07:06
13C7 PFUdA	N/A	N/A	9.42	9.40	1748		06/24/2022 07:06
13C2 PFDoA	N/A	N/A	10.08	10.05	835		06/24/2022 07:06
13C2 PFTeDA	N/A	N/A	11.34	11.30	972		06/24/2022 07:06
13C3 HFPO-DA	N/A	N/A	6.46	6.43	964		06/24/2022 07:06
d7-N-MeFOSE	N/A	N/A	12.97	12.95	171		06/24/2022 07:06
d9-N-EtFOSE	N/A	N/A	13.45	13.43	225		06/24/2022 07:06
d3-N-MeFOSA	N/A	N/A	13.19	13.16	350	R	06/24/2022 07:06
d5-N-EtFOSA	N/A	N/A	13.62	13.60	143	R	06/24/2022 07:06

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897003	Total Amount Extracted	5.18g
Lab File ID	Q220623C_030	Percent Moisture	15.9874%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.78	4.77	ND		06/24/2022 07:06
PFPeA	N/A	N/A	5.53	5.54	ND		06/24/2022 07:06
HFPO-DA	2.20	0.33	6.72	6.44	ND		06/24/2022 07:06
PFBS	0.22	0.29	6.41	6.40	ND		06/24/2022 07:06
PFHxA	0.28	0.09	6.20	6.17	ND		06/24/2022 07:06
4:2 FTS	0.00	0.96	0.00	5.91	ND		06/24/2022 07:06
PFPeS	0.82	0.41	7.16	7.12	ND		06/24/2022 07:06
PFHpA	0.55	0.50	6.85	6.81	ND		06/24/2022 07:06
DONA	0.00	0.45	7.08	7.04	ND		06/24/2022 07:06
PFHxS	0.31	0.33	7.86	7.82	ND		06/24/2022 07:06
PFOA	0.17	0.37	7.49	7.44	37	IJ	06/24/2022 07:06
6:2 FTS	0.66	1.10	7.17	7.12	ND		06/24/2022 07:06
PFHpS	0.00	0.43	8.29	8.51	ND		06/24/2022 07:06
PFNA	0.00	0.22	0.00	8.10	ND		06/24/2022 07:06
PFOSAm	N/A	N/A	11.29	11.26	ND		06/24/2022 07:06
PFOS	0.18	0.20	8.94	9.18	109	J	06/24/2022 07:06
MeFOSA	0.00	0.48	0.00	13.17	ND		06/24/2022 07:06
PFDA	0.00	0.16	0.00	8.75	ND		06/24/2022 07:06
EtFOSAm	0.00	0.39	0.00	13.62	ND		06/24/2022 07:06
8:2 FTS	0.00	1.80	0.00	8.38	ND		06/24/2022 07:06
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/24/2022 07:06
PFNS	0.00	0.23	0.00	9.83	ND		06/24/2022 07:06
PFUnDA	0.00	0.19	0.00	9.40	ND		06/24/2022 07:06
NMeFOSAA	0.00	0.72	0.00	8.66	ND		06/24/2022 07:06
NEtFOSAA	0.00	0.48	0.00	8.96	ND		06/24/2022 07:06
PFDS	0.00	0.23	0.00	10.47	ND		06/24/2022 07:06
PFDOA	0.00	0.18	0.00	10.05	ND		06/24/2022 07:06
MeFOSE	N/A	N/A	0.00	13.01	ND		06/24/2022 07:06
EtFOSE	0.00	0.00	0.00	13.49	ND		06/24/2022 07:06
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/24/2022 07:06
PFTTrDA	0.00	0.20	0.00	10.69	ND		06/24/2022 07:06
PFDoS	0.00	0.25	0.00	11.64	ND		06/24/2022 07:06
PFTDA	0.00	0.15	0.00	11.30	ND		06/24/2022 07:06

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897004	Total Amount Extracted	5.08g
Lab File ID	Q220627A_019	Percent Moisture	18.7339%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:20	CCal File	Q220627A_008
Received	06/04/2022 10:15	Ending CCal File	Q220627A_020
		Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.09	0.02	0.02	1	375-22-4		06/27/2022 14:07
PFPeA	ND	0.09	0.02	0.02	1	2706-90-3		06/27/2022 14:07
HFPO-DA	ND	0.09	0.02	0.02	1	13252-13-6		06/27/2022 14:07
PFBS	0.057 J	0.08	0.02	0.02	1	375-73-5		06/27/2022 14:07
PFHxA	ND	0.09	0.03	0.03	1	307-24-4		06/27/2022 14:07
4:2 FTS	ND	0.09	0.03	0.03	1	757124-72-4		06/27/2022 14:07
PFPeS	ND	0.09	0.01	0.01	1	2706-91-4		06/27/2022 14:07
PFHpA	ND	0.09	0.02	0.02	1	375-85-9		06/27/2022 14:07
DONA	ND	0.09	0.03	0.03	1	919005-14-4		06/27/2022 14:07
PFHxS	0.038 J	0.09	0.02	0.02	1	355-46-4		06/27/2022 14:07
PFOA	0.054 J	0.09	0.02	0.02	1	335-67-1		06/27/2022 14:07
6:2 FTS	ND	0.09	0.03	0.03	1	27619-97-2		06/27/2022 14:07
PFHpS	ND	0.09	0.02	0.02	1	375-92-8		06/27/2022 14:07
PFNA	ND	0.09	0.02	0.02	1	375-95-1		06/27/2022 14:07
PFOSAm	ND	0.09	0.02	0.02	1	754-91-6		06/27/2022 14:07
PFOS	0.14	0.09	0.02	0.02	1	1763-23-1		06/27/2022 14:07
MeFOSA	ND	0.09	0.02	0.02	1	31506-32-8		06/27/2022 14:07
PFDA	ND	0.09	0.02	0.02	1	335-76-2		06/27/2022 14:07
EtFOSAm	ND	0.09	0.02	0.02	1	4151-50-2		06/27/2022 14:07
8:2 FTS	ND	0.09	0.02	0.02	1	39108-34-4		06/27/2022 14:07
9-CI-PF3ON	ND	0.09	0.01	0.01	1	756426-58-1		06/27/2022 14:07
PFNS	ND	0.09	0.01	0.01	1	68259-12-1		06/27/2022 14:07
PFUnDA	ND	0.09	0.02	0.02	1	2058-94-8		06/27/2022 14:07
NMeFOSAA	ND	0.09	0.02	0.02	1	2355-31-9		06/27/2022 14:07
NEtFOSAA	ND	0.09	0.02	0.02	1	2991-50-6		06/27/2022 14:07
PFDS	ND	0.09	0.02	0.02	1	335-77-3		06/27/2022 14:07
PFDOA	ND	0.09	0.02	0.02	1	307-55-1		06/27/2022 14:07
MeFOSE	ND	0.09	0.02	0.02	1	24448-09-7		06/27/2022 14:07
EtFOSE	ND	0.09	0.02	0.02	1	1691-99-2		06/27/2022 14:07
11-CI-PF3OUdS	ND	0.09	0.01	0.01	1	763051-92-9		06/27/2022 14:07
PFTTrDA	ND	0.09	0.02	0.02	1	72629-94-8		06/27/2022 14:07
PFDoS	ND	0.09	0.02	0.02	1	79780-39-5		06/27/2022 14:07
PFTDA	ND	0.09	0.03	0.03	1	376-06-7		06/27/2022 14:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897004	Total Amount Extracted	5.08g
Lab File ID	Q220627A_019	Percent Moisture	18.7339%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:20	CCal File	Q220627A_008
Received	06/04/2022 10:15	Ending CCal File	Q220627A_020
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	1.2	117	50-150		06/27/2022 14:07
13C4 PFOA	0.99	1.1	112	50-150		06/27/2022 14:07
13C2 PFDA	0.99	1.1	108	50-150		06/27/2022 14:07
13C4 PFOS	0.94	1.1	114	50-150		06/27/2022 14:07

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.65	66	50-150		06/27/2022 14:07
13C5 PFPeA	0.99	0.73	74	50-150		06/27/2022 14:07
13C3 PFBS	0.92	0.76	83	50-150		06/27/2022 14:07
13C2 4:2FTS	0.92	0.59	64	50-150		06/27/2022 14:07
13C5 PFHxA	0.99	0.75	76	50-150		06/27/2022 14:07
13C4 PFHpA	0.99	0.73	74	50-150		06/27/2022 14:07
13C3 PFHxS	0.93	0.67	72	50-150		06/27/2022 14:07
13C2 6:2FTS	0.93	0.72	77	50-150		06/27/2022 14:07
13C8 PFOA	0.99	0.68	69	50-150		06/27/2022 14:07
13C9 PFNA	0.99	0.75	76	50-150		06/27/2022 14:07
13C8 PFOS	0.94	0.75	79	50-150		06/27/2022 14:07
13C2 8:2FTS	0.94	0.67	71	50-150		06/27/2022 14:07
13C6 PFDA	0.99	0.74	76	50-150		06/27/2022 14:07
d3-MeFOSAA	0.99	0.49	50	50-150		06/27/2022 14:07
13C8 PFOSA	0.99	0.18	19	50-150	R	06/27/2022 14:07
d5-EtFOSAA	0.99	0.58	59	50-150		06/27/2022 14:07
13C7 PFUdA	0.99	0.71	72	50-150		06/27/2022 14:07
13C2 PFDoA	0.99	0.64	65	50-150		06/27/2022 14:07
13C2 PFTeDA	0.99	0.60	61	50-150		06/27/2022 14:07
13C3 HFPO-DA	0.99	0.66	67	50-150		06/27/2022 14:07
d7-N-MeFOSE	0.99	0.053	5	10-150	R	06/27/2022 14:07
d9-N-EtFOSE	0.99	0.058	6	10-150	R	06/27/2022 14:07
d3-N-MeFOSA	0.99	0.0057	1	10-150	R	06/27/2022 14:07
d5-N-EtFOSA	0.99	0.0040	0	10-150	R	06/27/2022 14:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897004	Total Amount Extracted	5.08g
Lab File ID	Q220627A_019	Percent Moisture	18.7339%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:20	CCal File	Q220627A_008
Received	06/04/2022 10:15	Ending CCal File	Q220627A_020
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.20	6.16	1362		06/27/2022 14:07
13C4 PFOA	N/A	N/A	7.51	7.50	1669		06/27/2022 14:07
13C2 PFDA	N/A	N/A	8.81	8.74	2451		06/27/2022 14:07
13C4 PFOS	N/A	N/A	9.23	9.23	1117		06/27/2022 14:07

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.73	2530		06/27/2022 14:07
13C5 PFPeA	N/A	N/A	5.53	5.53	1588		06/27/2022 14:07
13C3 PFBS	N/A	N/A	6.43	6.39	795		06/27/2022 14:07
13C2 4:2FTS	N/A	N/A	5.93	5.90	350		06/27/2022 14:07
13C5 PFHxA	N/A	N/A	6.21	6.17	1562		06/27/2022 14:07
13C4 PFHpA	N/A	N/A	6.86	6.83	1321		06/27/2022 14:07
13C3 PFHxS	N/A	N/A	7.88	7.89	1124		06/27/2022 14:07
13C2 6:2FTS	N/A	N/A	7.18	7.15	528		06/27/2022 14:07
13C8 PFOA	N/A	N/A	7.51	7.52	1380		06/27/2022 14:07
13C9 PFNA	N/A	N/A	8.16	8.12	1354		06/27/2022 14:07
13C8 PFOS	N/A	N/A	9.23	9.17	777		06/27/2022 14:07
13C2 8:2FTS	N/A	N/A	8.44	8.38	941		06/27/2022 14:07
13C6 PFDA	N/A	N/A	8.81	8.75	1455		06/27/2022 14:07
d3-MeFOSAA	N/A	N/A	8.72	8.65	1056		06/27/2022 14:07
13C8 PFOSA	N/A	N/A	11.31	11.25	960	R	06/27/2022 14:07
d5-EtFOSAA	N/A	N/A	9.02	8.95	434		06/27/2022 14:07
13C7 PFUdA	N/A	N/A	9.46	9.40	1671		06/27/2022 14:07
13C2 PFDoA	N/A	N/A	10.12	10.05	707		06/27/2022 14:07
13C2 PFTeDA	N/A	N/A	11.39	11.30	811		06/27/2022 14:07
13C3 HFPO-DA	N/A	N/A	6.48	6.43	55		06/27/2022 14:07
d7-N-MeFOSE	N/A	N/A	13.00	12.95	77	R	06/27/2022 14:07
d9-N-EtFOSE	N/A	N/A	13.48	13.43	136	R	06/27/2022 14:07
d3-N-MeFOSA	N/A	N/A	13.21	13.16	11377	R	06/27/2022 14:07
d5-N-EtFOSA	N/A	N/A	13.64	13.64	138	R	06/27/2022 14:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-27(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897004	Total Amount Extracted	5.08g
Lab File ID	Q220627A_019	Percent Moisture	18.7339%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 11:20	CCal File	Q220627A_008
Received	06/04/2022 10:15	Ending CCal File	Q220627A_020
		Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.76	4.77	ND		06/27/2022 14:07
PFPeA	N/A	N/A	5.54	5.54	ND		06/27/2022 14:07
HFPO-DA	0.00	0.47	0.00	6.44	ND		06/27/2022 14:07
PFBS	0.34	0.47	6.43	6.40	221	J	06/27/2022 14:07
PFHxA	0.00	0.07	0.00	6.17	ND		06/27/2022 14:07
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/27/2022 14:07
PFPeS	0.43	0.51	7.18	7.18	ND		06/27/2022 14:07
PFHpA	0.24	0.52	6.87	6.81	ND		06/27/2022 14:07
DONA	0.00	0.59	0.00	7.04	ND		06/27/2022 14:07
PFHxS	0.43	0.34	7.88	7.82	186	J	06/27/2022 14:07
PFOA	0.26	0.32	7.51	7.44	49	J	06/27/2022 14:07
6:2 FTS	0.00	0.96	0.00	7.12	ND		06/27/2022 14:07
PFHpS	0.40	0.31	8.57	8.51	ND		06/27/2022 14:07
PFNA	0.00	0.26	0.00	8.10	ND		06/27/2022 14:07
PFOSAm	N/A	N/A	11.31	11.26	ND		06/27/2022 14:07
PFOS	0.17	0.28	9.24	9.18	114		06/27/2022 14:07
MeFOSA	0.00	0.50	0.00	13.17	ND		06/27/2022 14:07
PFDA	0.00	0.16	0.00	8.83	ND		06/27/2022 14:07
EtFOSAm	0.00	0.43	0.00	13.62	ND		06/27/2022 14:07
8:2 FTS	0.00	1.40	0.00	8.38	ND		06/27/2022 14:07
9-CI-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 14:07
PFNS	0.00	0.20	0.00	9.83	ND		06/27/2022 14:07
PFUnDA	0.00	0.14	0.00	9.40	ND		06/27/2022 14:07
NMeFOSAA	0.00	0.58	0.00	8.66	ND		06/27/2022 14:07
NEtFOSAA	0.00	0.54	0.00	8.96	ND		06/27/2022 14:07
PFDS	0.00	0.28	0.00	10.47	ND		06/27/2022 14:07
PFDOA	0.00	0.18	0.00	10.05	ND		06/27/2022 14:07
MeFOSE	N/A	N/A	0.00	13.04	ND		06/27/2022 14:07
EtFOSE	0.00	0.00	0.00	13.40	ND		06/27/2022 14:07
11-CI-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/27/2022 14:07
PFTTrDA	0.00	0.20	0.00	10.69	ND		06/27/2022 14:07
PFDoS	0.00	0.22	0.00	11.64	ND		06/27/2022 14:07
PFTDA	0.00	0.18	0.00	11.30	ND		06/27/2022 14:07

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Pace Analytical Services, LLC
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 Phone: 612.607.1700
 Fax: 612.607.6444
 www.pacelabs.com

Sample Analysis Summary
 PFAS by Isotope Dilution

Page 1 of 4

Client Sample ID	B-28(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897005	Total Amount Extracted	5.04g
Lab File ID	Q220623C_032	Percent Moisture	8.0286%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.09	0.02	0.02	1	375-22-4		06/24/2022 07:44
PFPeA	ND	0.09	0.02	0.02	1	2706-90-3		06/24/2022 07:44
HFPO-DA	ND	0.09	0.02	0.02	1	13252-13-6		06/24/2022 07:44
PFBS	ND	0.08	0.02	0.02	1	375-73-5		06/24/2022 07:44
PFHxA	ND	0.09	0.03	0.03	1	307-24-4		06/24/2022 07:44
4:2 FTS	ND	0.09	0.03	0.03	1	757124-72-4		06/24/2022 07:44
PFPeS	ND	0.09	0.01	0.01	1	2706-91-4		06/24/2022 07:44
PFHpA	ND	0.09	0.02	0.02	1	375-85-9		06/24/2022 07:44
DONA	ND	0.09	0.03	0.03	1	919005-14-4		06/24/2022 07:44
PFHxS	ND	0.09	0.02	0.02	1	355-46-4		06/24/2022 07:44
PFOA	ND	0.09	0.02	0.02	1	335-67-1		06/24/2022 07:44
6:2 FTS	ND	0.09	0.03	0.03	1	27619-97-2		06/24/2022 07:44
PFHpS	ND	0.09	0.02	0.02	1	375-92-8		06/24/2022 07:44
PFNA	ND	0.09	0.02	0.02	1	375-95-1		06/24/2022 07:44
PFOSAm	ND	0.09	0.02	0.02	1	754-91-6		06/24/2022 07:44
PFOS	0.48	0.09	0.02	0.02	1	1763-23-1		06/24/2022 07:44
MeFOSA	ND	0.09	0.02	0.02	1	31506-32-8		06/24/2022 07:44
PFDA	ND	0.09	0.02	0.02	1	335-76-2		06/24/2022 07:44
EtFOSAm	ND	0.09	0.02	0.02	1	4151-50-2		06/24/2022 07:44
8:2 FTS	ND	0.09	0.02	0.02	1	39108-34-4		06/24/2022 07:44
9-CI-PF3ON	ND	0.09	0.01	0.01	1	756426-58-1		06/24/2022 07:44
PFNS	ND	0.09	0.01	0.01	1	68259-12-1		06/24/2022 07:44
PFUnDA	ND	0.09	0.02	0.02	1	2058-94-8		06/24/2022 07:44
NMeFOSAA	ND	0.09	0.02	0.02	1	2355-31-9		06/24/2022 07:44
NEtFOSAA	ND	0.09	0.02	0.02	1	2991-50-6		06/24/2022 07:44
PFDS	ND	0.09	0.02	0.02	1	335-77-3		06/24/2022 07:44
PFDOA	ND	0.09	0.02	0.02	1	307-55-1		06/24/2022 07:44
MeFOSE	ND	0.09	0.02	0.02	1	24448-09-7		06/24/2022 07:44
EtFOSE	ND	0.09	0.02	0.02	1	1691-99-2		06/24/2022 07:44
11-CI-PF3OUdS	ND	0.09	0.01	0.01	1	763051-92-9		06/24/2022 07:44
PFTTrDA	ND	0.09	0.02	0.02	1	72629-94-8		06/24/2022 07:44
PFDoS	ND	0.09	0.03	0.03	1	79780-39-5		06/24/2022 07:44
PFTDA	ND	0.09	0.03	0.03	1	376-06-7		06/24/2022 07:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-28(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897005	Total Amount Extracted	5.04g
Lab File ID	Q220623C_032	Percent Moisture	8.0286%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	1.2	124	50-150		06/24/2022 07:44
13C4 PFOA	0.99	1.3	127	50-150		06/24/2022 07:44
13C2 PFDA	0.99	1.5	148	50-150		06/24/2022 07:44
13C4 PFOS	0.95	1.2	123	50-150		06/24/2022 07:44

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	1.00	101	25-150		06/24/2022 07:44
13C5 PFPeA	0.99	1.1	108	25-150		06/24/2022 07:44
13C3 PFBS	0.92	1.3	146	25-150		06/24/2022 07:44
13C2 4:2FTS	0.93	1.1	118	25-150		06/24/2022 07:44
13C5 PFHxA	0.99	1.0	102	25-150		06/24/2022 07:44
13C4 PFHpA	0.99	1.0	104	25-150		06/24/2022 07:44
13C3 PFHxS	0.94	1.1	112	25-150		06/24/2022 07:44
13C2 6:2FTS	0.94	1.1	118	25-150		06/24/2022 07:44
13C8 PFOA	0.99	0.98	98	25-150		06/24/2022 07:44
13C9 PFNA	0.99	0.98	99	25-150		06/24/2022 07:44
13C8 PFOS	0.95	1.1	112	25-150		06/24/2022 07:44
13C2 8:2FTS	0.95	0.94	99	25-150		06/24/2022 07:44
13C6 PFDA	0.99	1.0	105	25-150		06/24/2022 07:44
d3-MeFOSAA	0.99	1.4	137	25-150		06/24/2022 07:44
13C8 PFOSA	0.99	0.82	83	25-150		06/24/2022 07:44
d5-EtFOSAA	0.99	1.2	121	25-150		06/24/2022 07:44
13C7 PFUdA	0.99	1.0	103	25-150		06/24/2022 07:44
13C2 PFDoA	0.99	1.3	129	25-150		06/24/2022 07:44
13C2 PFTeDA	0.99	1.4	141	25-150		06/24/2022 07:44
13C3 HFPO-DA	0.99	1.0	103	25-150		06/24/2022 07:44
d7-N-MeFOSE	0.99	0.57	57	10-150		06/24/2022 07:44
d9-N-EtFOSE	0.99	0.58	59	10-150		06/24/2022 07:44
d3-N-MeFOSA	0.99	0.11	11	10-150		06/24/2022 07:44
d5-N-EtFOSA	0.99	0.16	16	10-150		06/24/2022 07:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-28(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897005	Total Amount Extracted	5.04g
Lab File ID	Q220623C_032	Percent Moisture	8.0286%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	1318		06/24/2022 07:44
13C4 PFOA	N/A	N/A	7.49	7.44	1314		06/24/2022 07:44
13C2 PFDA	N/A	N/A	8.78	8.74	1093		06/24/2022 07:44
13C4 PFOS	N/A	N/A	9.21	9.16	377		06/24/2022 07:44

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.73	2659		06/24/2022 07:44
13C5 PFPeA	N/A	N/A	5.53	5.51	1356		06/24/2022 07:44
13C3 PFBS	N/A	N/A	6.41	6.41	461		06/24/2022 07:44
13C2 4:2FTS	N/A	N/A	5.91	5.91	410		06/24/2022 07:44
13C5 PFHxA	N/A	N/A	6.19	6.17	1206		06/24/2022 07:44
13C4 PFHpA	N/A	N/A	6.85	6.80	1120		06/24/2022 07:44
13C3 PFHxS	N/A	N/A	7.86	7.84	881		06/24/2022 07:44
13C2 6:2FTS	N/A	N/A	7.16	7.16	364		06/24/2022 07:44
13C8 PFOA	N/A	N/A	7.49	7.43	1655		06/24/2022 07:44
13C9 PFNA	N/A	N/A	8.14	8.13	1474		06/24/2022 07:44
13C8 PFOS	N/A	N/A	9.21	9.17	545		06/24/2022 07:44
13C2 8:2FTS	N/A	N/A	8.42	8.38	557		06/24/2022 07:44
13C6 PFDA	N/A	N/A	8.78	8.75	1179		06/24/2022 07:44
d3-MeFOSAA	N/A	N/A	8.70	8.65	8817		06/24/2022 07:44
13C8 PFOSA	N/A	N/A	11.30	11.25	1086		06/24/2022 07:44
d5-EtFOSAA	N/A	N/A	9.00	8.95	266		06/24/2022 07:44
13C7 PFUdA	N/A	N/A	9.44	9.40	1799		06/24/2022 07:44
13C2 PFDoA	N/A	N/A	10.10	10.05	748		06/24/2022 07:44
13C2 PFTeDA	N/A	N/A	11.36	11.30	1176		06/24/2022 07:44
13C3 HFPO-DA	N/A	N/A	6.46	6.43	1256		06/24/2022 07:44
d7-N-MeFOSE	N/A	N/A	12.98	12.95	239		06/24/2022 07:44
d9-N-EtFOSE	N/A	N/A	13.46	13.43	264		06/24/2022 07:44
d3-N-MeFOSA	N/A	N/A	13.18	13.16	230		06/24/2022 07:44
d5-N-EtFOSA	N/A	N/A	13.63	13.60	420		06/24/2022 07:44

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-28(0-4')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897005	Total Amount Extracted	5.04g
Lab File ID	Q220623C_032	Percent Moisture	8.0286%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:00	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.92	4.77	ND		06/24/2022 07:44
PFPeA	N/A	N/A	5.53	5.54	ND		06/24/2022 07:44
HFPO-DA	0.00	0.33	0.00	6.44	ND		06/24/2022 07:44
PFBS	0.32	0.29	6.42	6.40	ND		06/24/2022 07:44
PFHxA	0.21	0.09	6.20	6.17	ND		06/24/2022 07:44
4:2 FTS	0.00	0.96	0.00	5.91	ND		06/24/2022 07:44
PFPeS	0.67	0.41	7.16	7.12	ND		06/24/2022 07:44
PFHpA	0.30	0.50	6.83	6.81	ND		06/24/2022 07:44
DONA	0.00	0.45	7.09	7.04	ND		06/24/2022 07:44
PFHxS	0.27	0.33	7.86	7.82	ND		06/24/2022 07:44
PFOA	0.25	0.37	7.50	7.44	ND		06/24/2022 07:44
6:2 FTS	0.00	1.10	0.00	7.12	ND		06/24/2022 07:44
PFHpS	0.36	0.43	8.56	8.51	ND		06/24/2022 07:44
PFNA	0.00	0.22	8.15	8.10	ND		06/24/2022 07:44
PFOSAm	N/A	N/A	11.32	11.26	ND		06/24/2022 07:44
PFOS	0.22	0.20	9.22	9.18	173		06/24/2022 07:44
MeFOSA	0.00	0.48	13.58	13.17	ND		06/24/2022 07:44
PFDA	0.00	0.16	0.00	8.75	ND		06/24/2022 07:44
EtFOSAm	0.00	0.39	0.00	13.62	ND		06/24/2022 07:44
8:2 FTS	0.00	1.80	0.00	8.38	ND		06/24/2022 07:44
9-CI-PF3ON	0.00	0.04	0.00	9.66	ND		06/24/2022 07:44
PFNS	0.00	0.23	9.86	9.83	ND		06/24/2022 07:44
PFUnDA	0.00	0.19	0.00	9.40	ND		06/24/2022 07:44
NMeFOSAA	0.00	0.72	0.00	8.66	ND		06/24/2022 07:44
NEtFOSAA	0.00	0.48	0.00	8.96	ND		06/24/2022 07:44
PFDS	0.00	0.23	10.53	10.47	ND		06/24/2022 07:44
PFDOA	0.00	0.18	0.00	10.05	ND		06/24/2022 07:44
MeFOSE	N/A	N/A	13.40	13.01	ND		06/24/2022 07:44
EtFOSE	0.00	0.00	0.00	13.49	ND		06/24/2022 07:44
11-CI-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/24/2022 07:44
PFTTrDA	0.00	0.20	0.00	10.69	ND		06/24/2022 07:44
PFDoS	0.00	0.25	0.00	11.64	ND		06/24/2022 07:44
PFTDA	0.00	0.15	11.36	11.30	ND		06/24/2022 07:44

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-28(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897006	Total Amount Extracted	5.19g
Lab File ID	Q220623C_033	Percent Moisture	23.0973%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:30	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.09	0.02	0.02	1	375-22-4		06/24/2022 08:02
PFPeA	ND	0.09	0.02	0.02	1	2706-90-3		06/24/2022 08:02
HFPO-DA	ND	0.09	0.02	0.02	1	13252-13-6		06/24/2022 08:02
PFBS	0.098 I	0.08	0.02	0.02	1	375-73-5		06/24/2022 08:02
PFHxA	ND	0.09	0.02	0.02	1	307-24-4		06/24/2022 08:02
4:2 FTS	ND	0.09	0.03	0.03	1	757124-72-4		06/24/2022 08:02
PFPeS	ND	0.09	0.01	0.01	1	2706-91-4		06/24/2022 08:02
PFHpA	ND	0.09	0.02	0.02	1	375-85-9		06/24/2022 08:02
DONA	ND	0.09	0.03	0.03	1	919005-14-4		06/24/2022 08:02
PFHxS	0.053 J	0.08	0.02	0.02	1	355-46-4		06/24/2022 08:02
PFOA	0.044 J	0.09	0.02	0.02	1	335-67-1		06/24/2022 08:02
6:2 FTS	ND	0.09	0.03	0.03	1	27619-97-2		06/24/2022 08:02
PFHpS	ND	0.09	0.02	0.02	1	375-92-8		06/24/2022 08:02
PFNA	ND	0.09	0.02	0.02	1	375-95-1		06/24/2022 08:02
PFOSAm	ND	0.09	0.02	0.02	1	754-91-6		06/24/2022 08:02
PFOS	0.54	0.08	0.02	0.02	1	1763-23-1		06/24/2022 08:02
MeFOSA	ND	0.09	0.02	0.02	1	31506-32-8		06/24/2022 08:02
PFDA	ND	0.09	0.02	0.02	1	335-76-2		06/24/2022 08:02
EtFOSAm	ND	0.09	0.02	0.02	1	4151-50-2		06/24/2022 08:02
8:2 FTS	ND	0.09	0.02	0.02	1	39108-34-4		06/24/2022 08:02
9-CI-PF3ON	ND	0.09	0.01	0.01	1	756426-58-1		06/24/2022 08:02
PFNS	ND	0.09	0.01	0.01	1	68259-12-1		06/24/2022 08:02
PFUnDA	ND	0.09	0.02	0.02	1	2058-94-8		06/24/2022 08:02
NMeFOSAA	ND	0.09	0.02	0.02	1	2355-31-9		06/24/2022 08:02
NEtFOSAA	ND	0.09	0.02	0.02	1	2991-50-6		06/24/2022 08:02
PFDS	ND	0.09	0.02	0.02	1	335-77-3		06/24/2022 08:02
PFDOA	ND	0.09	0.02	0.02	1	307-55-1		06/24/2022 08:02
MeFOSE	ND	0.09	0.02	0.02	1	24448-09-7		06/24/2022 08:02
EtFOSE	ND	0.09	0.02	0.02	1	1691-99-2		06/24/2022 08:02
11-CI-PF3OUdS	ND	0.09	0.01	0.01	1	763051-92-9		06/24/2022 08:02
PFTTrDA	ND	0.09	0.02	0.02	1	72629-94-8		06/24/2022 08:02
PFDoS	ND	0.09	0.02	0.02	1	79780-39-5		06/24/2022 08:02
PFTDA	ND	0.09	0.03	0.03	1	376-06-7		06/24/2022 08:02

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-28(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897006	Total Amount Extracted	5.19g
Lab File ID	Q220623C_033	Percent Moisture	23.0973%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:30	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.96	1.0	105	50-150		06/24/2022 08:02
13C4 PFOA	0.96	1.2	122	50-150		06/24/2022 08:02
13C2 PFDA	0.96	1.2	122	50-150		06/24/2022 08:02
13C4 PFOS	0.92	0.97	105	50-150		06/24/2022 08:02

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.96	0.87	90	50-150		06/24/2022 08:02
13C5 PFPeA	0.96	0.90	94	50-150		06/24/2022 08:02
13C3 PFBS	0.90	0.99	110	50-150		06/24/2022 08:02
13C2 4:2FTS	0.90	1.1	119	50-150		06/24/2022 08:02
13C5 PFHxA	0.96	0.77	80	50-150		06/24/2022 08:02
13C4 PFHpA	0.96	0.91	94	50-150		06/24/2022 08:02
13C3 PFHxS	0.91	0.83	91	50-150		06/24/2022 08:02
13C2 6:2FTS	0.91	1.1	119	50-150		06/24/2022 08:02
13C8 PFOA	0.96	0.84	87	50-150		06/24/2022 08:02
13C9 PFNA	0.96	0.82	85	50-150		06/24/2022 08:02
13C8 PFOS	0.92	0.83	90	50-150		06/24/2022 08:02
13C2 8:2FTS	0.92	1.0	109	50-150		06/24/2022 08:02
13C6 PFDA	0.96	0.75	78	50-150		06/24/2022 08:02
d3-MeFOSAA	0.96	1.0	106	50-150		06/24/2022 08:02
13C8 PFOSA	0.96	0.54	56	50-150		06/24/2022 08:02
d5-EtFOSAA	0.96	1.0	109	50-150		06/24/2022 08:02
13C7 PFUdA	0.96	0.90	93	50-150		06/24/2022 08:02
13C2 PFDaA	0.96	1.0	105	50-150		06/24/2022 08:02
13C2 PFTeDA	0.96	0.99	103	50-150		06/24/2022 08:02
13C3 HFPO-DA	0.96	0.92	96	50-150		06/24/2022 08:02
d7-N-MeFOSE	0.96	0.17	17	10-150		06/24/2022 08:02
d9-N-EtFOSE	0.96	0.20	21	10-150		06/24/2022 08:02
d3-N-MeFOSA	0.96	0.012	1	10-150	R	06/24/2022 08:02
d5-N-EtFOSA	0.96	0.015	2	10-150	R	06/24/2022 08:02

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-28(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897006	Total Amount Extracted	5.19g
Lab File ID	Q220623C_033	Percent Moisture	23.0973%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:30	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	1112		06/24/2022 08:02
13C4 PFOA	N/A	N/A	7.49	7.44	1216		06/24/2022 08:02
13C2 PFDA	N/A	N/A	8.78	8.74	1313		06/24/2022 08:02
13C4 PFOS	N/A	N/A	9.20	9.16	886		06/24/2022 08:02

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.73	2286		06/24/2022 08:02
13C5 PFPeA	N/A	N/A	5.52	5.51	1246		06/24/2022 08:02
13C3 PFBS	N/A	N/A	6.42	6.41	1113		06/24/2022 08:02
13C2 4:2FTS	N/A	N/A	5.92	5.91	393		06/24/2022 08:02
13C5 PFHxA	N/A	N/A	6.20	6.17	1129		06/24/2022 08:02
13C4 PFHpA	N/A	N/A	6.85	6.80	1130		06/24/2022 08:02
13C3 PFHxS	N/A	N/A	7.86	7.84	1193		06/24/2022 08:02
13C2 6:2FTS	N/A	N/A	7.17	7.16	319		06/24/2022 08:02
13C8 PFOA	N/A	N/A	7.49	7.43	1731		06/24/2022 08:02
13C9 PFNA	N/A	N/A	8.14	8.13	1207		06/24/2022 08:02
13C8 PFOS	N/A	N/A	9.21	9.17	587		06/24/2022 08:02
13C2 8:2FTS	N/A	N/A	8.42	8.38	973		06/24/2022 08:02
13C6 PFDA	N/A	N/A	8.78	8.75	2220		06/24/2022 08:02
d3-MeFOSAA	N/A	N/A	8.70	8.65	249588		06/24/2022 08:02
13C8 PFOSA	N/A	N/A	11.30	11.25	1026		06/24/2022 08:02
d5-EtFOSAA	N/A	N/A	9.00	8.95	668		06/24/2022 08:02
13C7 PFUdA	N/A	N/A	9.44	9.40	1785		06/24/2022 08:02
13C2 PFDoA	N/A	N/A	10.09	10.05	607		06/24/2022 08:02
13C2 PFTeDA	N/A	N/A	11.36	11.30	1371		06/24/2022 08:02
13C3 HFPO-DA	N/A	N/A	6.47	6.43	1098		06/24/2022 08:02
d7-N-MeFOSE	N/A	N/A	12.98	12.95	122		06/24/2022 08:02
d9-N-EtFOSE	N/A	N/A	13.46	13.43	160		06/24/2022 08:02
d3-N-MeFOSA	N/A	N/A	13.18	13.16	114	R	06/24/2022 08:02
d5-N-EtFOSA	N/A	N/A	13.63	13.60	152	R	06/24/2022 08:02

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	B-28(6-8')	Extraction Date	06/20/2022 18:18
Lab Sample ID	40245897006	Total Amount Extracted	5.19g
Lab File ID	Q220623C_033	Percent Moisture	23.0973%
Matrix	Solid	Ical ID	220623A01
Collected	06/02/2022 10:30	CCal File	Q220623C_026
Received	06/04/2022 10:15	Ending CCal File	Q220623C_035
		Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.73	4.77	ND		06/24/2022 08:02
PFPeA	N/A	N/A	5.53	5.54	ND		06/24/2022 08:02
HFPO-DA	0.00	0.33	0.00	6.44	ND		06/24/2022 08:02
PFBS	0.46	0.29	6.42	6.40	268	I	06/24/2022 08:02
PFHxA	0.12	0.09	6.20	6.17	ND		06/24/2022 08:02
4:2 FTS	0.00	0.96	0.00	5.91	ND		06/24/2022 08:02
PFPeS	7.10	0.41	7.09	7.12	ND		06/24/2022 08:02
PFHpA	0.36	0.50	6.86	6.81	ND		06/24/2022 08:02
DONA	0.84	0.45	7.10	7.04	ND		06/24/2022 08:02
PFHxS	0.39	0.33	7.87	7.82	237	J	06/24/2022 08:02
PFOA	0.30	0.37	7.50	7.44	68	J	06/24/2022 08:02
6:2 FTS	0.00	1.10	0.00	7.12	ND		06/24/2022 08:02
PFHpS	0.39	0.43	8.55	8.51	ND		06/24/2022 08:02
PFNA	0.00	0.22	8.15	8.10	ND		06/24/2022 08:02
PFOSAm	N/A	N/A	11.30	11.26	ND		06/24/2022 08:02
PFOS	0.13	0.20	8.96	9.18	197		06/24/2022 08:02
MeFOSA	0.00	0.48	0.00	13.17	ND		06/24/2022 08:02
PFDA	0.00	0.16	8.79	8.75	ND		06/24/2022 08:02
EtFOSAm	0.00	0.39	0.00	13.62	ND		06/24/2022 08:02
8:2 FTS	0.00	1.80	0.00	8.38	ND		06/24/2022 08:02
9-CI-PF3ON	0.00	0.04	0.00	9.66	ND		06/24/2022 08:02
PFNS	0.00	0.23	0.00	9.83	ND		06/24/2022 08:02
PFUnDA	0.00	0.19	0.00	9.40	ND		06/24/2022 08:02
NMeFOSAA	0.00	0.72	0.00	8.66	ND		06/24/2022 08:02
NEtFOSAA	0.00	0.48	0.00	8.96	ND		06/24/2022 08:02
PFDS	0.00	0.23	0.00	10.47	ND		06/24/2022 08:02
PFDOA	0.00	0.18	0.00	10.05	ND		06/24/2022 08:02
MeFOSE	N/A	N/A	13.02	13.01	ND		06/24/2022 08:02
EtFOSE	0.00	0.00	0.00	13.49	ND		06/24/2022 08:02
11-CI-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/24/2022 08:02
PFTTrDA	0.00	0.20	0.00	10.69	ND		06/24/2022 08:02
PFDoS	0.52	0.25	11.62	11.64	ND		06/24/2022 08:02
PFTDA	0.00	0.15	0.00	11.30	ND		06/24/2022 08:02

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKJO	Extraction Date	06/20/2022 18:18
Lab Sample ID	BLANK-99542	Total Amount Extracted	5.00g
Lab File ID	Q220623C_015	Percent Moisture	100%
Matrix	Soil	Ical ID	220623A01
Collected	06/17/2022 09:48	CCal File	Q220623B_030
Received	06/17/2022 09:48	Ending CCal File	Q220623C_017
		Blank File	

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.02	0.02	1	375-22-4		06/24/2022 02:28
PFPeA	ND	0.10	0.02	0.02	1	2706-90-3		06/24/2022 02:28
HFPO-DA	ND	0.10	0.03	0.03	1	13252-13-6		06/24/2022 02:28
PFBS	ND	0.08	0.02	0.02	1	375-73-5		06/24/2022 02:28
PFHxA	ND	0.10	0.03	0.03	1	307-24-4		06/24/2022 02:28
4:2 FTS	ND	0.09	0.03	0.03	1	757124-72-4		06/24/2022 02:28
PFPeS	ND	0.09	0.01	0.01	1	2706-91-4		06/24/2022 02:28
PFHpA	ND	0.10	0.02	0.02	1	375-85-9		06/24/2022 02:28
DONA	ND	0.09	0.03	0.03	1	919005-14-4		06/24/2022 02:28
PFHxS	ND	0.09	0.02	0.02	1	355-46-4		06/24/2022 02:28
PFOA	ND	0.10	0.02	0.02	1	335-67-1		06/24/2022 02:28
6:2 FTS	ND	0.09	0.03	0.03	1	27619-97-2		06/24/2022 02:28
PFHpS	ND	0.09	0.02	0.02	1	375-92-8		06/24/2022 02:28
PFNA	ND	0.10	0.02	0.02	1	375-95-1		06/24/2022 02:28
PFOSAm	ND	0.10	0.02	0.02	1	754-91-6		06/24/2022 02:28
PFOS	ND	0.09	0.02	0.02	1	1763-23-1		06/24/2022 02:28
MeFOSA	ND	0.10	0.02	0.02	1	31506-32-8		06/24/2022 02:28
PFDA	ND	0.10	0.02	0.02	1	335-76-2		06/24/2022 02:28
EtFOSAm	ND	0.10	0.02	0.02	1	4151-50-2		06/24/2022 02:28
8:2 FTS	ND	0.09	0.02	0.02	1	39108-34-4		06/24/2022 02:28
9-CI-PF3ON	ND	0.09	0.01	0.01	1	756426-58-1		06/24/2022 02:28
PFNS	ND	0.09	0.01	0.01	1	68259-12-1		06/24/2022 02:28
PFUnDA	ND	0.10	0.02	0.02	1	2058-94-8		06/24/2022 02:28
NMeFOSAA	ND	0.10	0.02	0.02	1	2355-31-9		06/24/2022 02:28
NEtFOSAA	ND	0.10	0.02	0.02	1	2991-50-6		06/24/2022 02:28
PFDS	ND	0.09	0.02	0.02	1	335-77-3		06/24/2022 02:28
PFDOA	ND	0.10	0.02	0.02	1	307-55-1		06/24/2022 02:28
MeFOSE	ND	0.10	0.02	0.02	1	24448-09-7		06/24/2022 02:28
EtFOSE	ND	0.10	0.02	0.02	1	1691-99-2		06/24/2022 02:28
11-CI-PF3OUdS	ND	0.09	0.01	0.01	1	763051-92-9		06/24/2022 02:28
PFTTrDA	ND	0.10	0.02	0.02	1	72629-94-8		06/24/2022 02:28
PFDoS	ND	0.09	0.03	0.03	1	79780-39-5		06/24/2022 02:28
PFTDA	ND	0.10	0.03	0.03	1	376-06-7		06/24/2022 02:28

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKJO	Extraction Date	06/20/2022 18:18
Lab Sample ID	BLANK-99542	Total Amount Extracted	5.00g
Lab File ID	Q220623C_015	Percent Moisture	100%
Matrix	Soil	Ical ID	220623A01
Collected	06/17/2022 09:48	CCal File	Q220623B_030
Received	06/17/2022 09:48	Ending CCal File	Q220623C_017
		Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	1.0	101	50-150		06/24/2022 02:28
13C4 PFOA	1.0	1.0	104	50-150		06/24/2022 02:28
13C2 PFDA	1.0	1.0	103	50-150		06/24/2022 02:28
13C4 PFOS	0.96	1.1	114	50-150		06/24/2022 02:28

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.85	85	50-150		06/24/2022 02:28
13C5 PFPeA	1.0	0.92	92	50-150		06/24/2022 02:28
13C3 PFBS	0.93	0.80	86	50-150		06/24/2022 02:28
13C2 4:2FTS	0.94	0.93	99	50-150		06/24/2022 02:28
13C5 PFHxA	1.0	0.92	92	50-150		06/24/2022 02:28
13C4 PFHpA	1.0	0.86	86	50-150		06/24/2022 02:28
13C3 PFHxS	0.95	0.84	89	50-150		06/24/2022 02:28
13C2 6:2FTS	0.95	0.65	68	50-150		06/24/2022 02:28
13C8 PFOA	1.0	0.85	85	50-150		06/24/2022 02:28
13C9 PFNA	1.0	0.88	88	50-150		06/24/2022 02:28
13C8 PFOS	0.96	0.81	85	50-150		06/24/2022 02:28
13C2 8:2FTS	0.96	0.83	87	50-150		06/24/2022 02:28
13C6 PFDA	1.0	0.83	83	50-150		06/24/2022 02:28
d3-MeFOSAA	1.0	0.81	81	50-150		06/24/2022 02:28
13C8 PFOSA	1.0	0.83	83	50-150		06/24/2022 02:28
d5-EtFOSAA	1.0	0.70	70	50-150		06/24/2022 02:28
13C7 PFUdA	1.0	0.95	95	50-150		06/24/2022 02:28
13C2 PFDoA	1.0	0.88	88	50-150		06/24/2022 02:28
13C2 PFTeDA	1.0	0.95	95	50-150		06/24/2022 02:28
13C3 HFPO-DA	1.0	0.95	95	50-150		06/24/2022 02:28
d7-N-MeFOSE	1.0	0.77	77	10-150		06/24/2022 02:28
d9-N-EtFOSE	1.0	0.66	66	10-150		06/24/2022 02:28
d3-N-MeFOSA	1.0	0.36	36	10-150		06/24/2022 02:28
d5-N-EtFOSA	1.0	0.35	35	10-150		06/24/2022 02:28

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKJO	Extraction Date	06/20/2022 18:18
Lab Sample ID	BLANK-99542	Total Amount Extracted	5.00g
Lab File ID	Q220623C_015	Percent Moisture	100%
Matrix	Soil	Ical ID	220623A01
Collected	06/17/2022 09:48	CCal File	Q220623B_030
Received	06/17/2022 09:48	Ending CCal File	Q220623C_017
		Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.18	6.16	1417		06/24/2022 02:28
13C4 PFOA	N/A	N/A	7.48	7.44	1361		06/24/2022 02:28
13C2 PFDA	N/A	N/A	8.77	8.74	1038		06/24/2022 02:28
13C4 PFOS	N/A	N/A	9.19	9.16	1033		06/24/2022 02:28

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.73	2130		06/24/2022 02:28
13C5 PFPeA	N/A	N/A	5.52	5.51	1261		06/24/2022 02:28
13C3 PFBS	N/A	N/A	6.40	6.41	1951		06/24/2022 02:28
13C2 4:2FTS	N/A	N/A	5.90	5.91	534		06/24/2022 02:28
13C5 PFHxA	N/A	N/A	6.18	6.17	1213		06/24/2022 02:28
13C4 PFHpA	N/A	N/A	6.83	6.80	921		06/24/2022 02:28
13C3 PFHxS	N/A	N/A	7.84	7.84	1431		06/24/2022 02:28
13C2 6:2FTS	N/A	N/A	7.15	7.16	826		06/24/2022 02:28
13C8 PFOA	N/A	N/A	7.48	7.43	1388		06/24/2022 02:28
13C9 PFNA	N/A	N/A	8.12	8.13	1751		06/24/2022 02:28
13C8 PFOS	N/A	N/A	9.19	9.17	1096		06/24/2022 02:28
13C2 8:2FTS	N/A	N/A	8.41	8.38	551		06/24/2022 02:28
13C6 PFDA	N/A	N/A	8.78	8.75	2862		06/24/2022 02:28
d3-MeFOSAA	N/A	N/A	8.69	8.65	8109		06/24/2022 02:28
13C8 PFOSA	N/A	N/A	11.27	11.25	822		06/24/2022 02:28
d5-EtFOSAA	N/A	N/A	8.98	8.95	555		06/24/2022 02:28
13C7 PFUdA	N/A	N/A	9.42	9.40	1737		06/24/2022 02:28
13C2 PFDoA	N/A	N/A	10.07	10.05	810		06/24/2022 02:28
13C2 PFTeDA	N/A	N/A	11.33	11.30	1019		06/24/2022 02:28
13C3 HFPO-DA	N/A	N/A	6.45	6.43	2127		06/24/2022 02:28
d7-N-MeFOSE	N/A	N/A	12.96	12.95	452		06/24/2022 02:28
d9-N-EtFOSE	N/A	N/A	13.43	13.43	371		06/24/2022 02:28
d3-N-MeFOSA	N/A	N/A	13.15	13.16	412		06/24/2022 02:28
d5-N-EtFOSA	N/A	N/A	13.60	13.60	771		06/24/2022 02:28

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKJO	Extraction Date	06/20/2022 18:18
Lab Sample ID	BLANK-99542	Total Amount Extracted	5.00g
Lab File ID	Q220623C_015	Percent Moisture	100%
Matrix	Soil	Ical ID	220623A01
Collected	06/17/2022 09:48	CCal File	Q220623B_030
Received	06/17/2022 09:48	Ending CCal File	Q220623C_017
		Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.78	4.77	ND		06/24/2022 02:28
PFPeA	N/A	N/A	5.52	5.54	ND		06/24/2022 02:28
HFPO-DA	0.00	0.45	0.00	6.44	ND		06/24/2022 02:28
PFBS	0.00	0.35	0.00	6.40	ND		06/24/2022 02:28
PFHxA	0.00	0.09	0.00	6.17	ND		06/24/2022 02:28
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/24/2022 02:28
PFPeS	0.00	0.42	0.00	7.12	ND		06/24/2022 02:28
PFHpA	0.00	0.48	0.00	6.81	ND		06/24/2022 02:28
DONA	0.00	0.48	0.00	7.04	ND		06/24/2022 02:28
PFHxS	0.00	0.35	0.00	7.82	ND		06/24/2022 02:28
PFOA	0.34	0.34	7.48	7.44	ND		06/24/2022 02:28
6:2 FTS	0.00	1.30	0.00	7.12	ND		06/24/2022 02:28
PFHpS	0.00	0.30	0.00	8.51	ND		06/24/2022 02:28
PFNA	0.00	0.23	0.00	8.10	ND		06/24/2022 02:28
PFOSAm	N/A	N/A	11.27	11.26	ND		06/24/2022 02:28
PFOS	0.00	0.24	0.00	9.18	ND		06/24/2022 02:28
MeFOSA	0.00	0.56	0.00	13.17	ND		06/24/2022 02:28
PFDA	0.00	0.18	0.00	8.75	ND		06/24/2022 02:28
EtFOSAm	0.00	0.46	0.00	13.62	ND		06/24/2022 02:28
8:2 FTS	0.00	1.60	0.00	8.38	ND		06/24/2022 02:28
9-CI-PF3ON	0.00	0.04	0.00	9.66	ND		06/24/2022 02:28
PFNS	0.00	0.24	0.00	9.83	ND		06/24/2022 02:28
PFUnDA	0.00	0.20	0.00	9.40	ND		06/24/2022 02:28
NMeFOSAA	0.00	1.10	0.00	8.66	ND		06/24/2022 02:28
NEtFOSAA	0.00	0.43	0.00	8.96	ND		06/24/2022 02:28
PFDS	0.00	0.26	0.00	10.47	ND		06/24/2022 02:28
PFDOA	0.00	0.19	0.00	10.05	ND		06/24/2022 02:28
MeFOSE	N/A	N/A	0.00	13.01	ND		06/24/2022 02:28
EtFOSE	0.00	0.00	0.00	13.49	ND		06/24/2022 02:28
11-CI-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/24/2022 02:28
PFTTrDA	0.00	0.18	0.00	10.69	ND		06/24/2022 02:28
PFDoS	0.00	0.22	0.00	11.64	ND		06/24/2022 02:28
PFTDA	0.00	0.15	0.00	11.30	ND		06/24/2022 02:28

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99543	Instrument ID	10LCMS01
Run File Name	Q220623C_016	Column ID	118AB10133
Analyzed	06/24/2022 02:46	Ical ID	220623A01
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	1.0	1.3	130	50-150	
13C4_PFOA	1.0	1.1	108	50-150	
13C2_PFDA	1.0	1.2	122	50-150	
13C4_PFOS	0.96	1.2	130	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	1.0	0.94	94	50-150	
13C5_PFPeA	1.0	1.1	106	50-150	
13C3_PFBFS	0.93	0.87	93	50-150	
13C2_4:2FTS	0.94	0.91	98	50-150	
13C5_PFHxA	1.0	1.1	114	50-150	
13C4_PFHpA	1.0	0.86	86	50-150	
13C3_PFHxS	0.95	0.84	89	50-150	
13C2_6:2FTS	0.95	0.72	76	50-150	
13C8_PFOA	1.0	0.81	81	50-150	
13C9_PFNA	1.0	0.99	99	50-150	
13C8_PFOS	0.96	0.75	78	50-150	
13C2_8:2FTS	0.96	0.81	84	50-150	
13C6_PFDA	1.0	0.91	91	50-150	
d3-MeFOSAA	1.0	0.84	84	50-150	
13C8_PFOA	1.0	0.80	80	50-150	
d5-EtFOSAA	1.0	0.87	87	50-150	
13C7_PFUdA	1.0	0.98	98	50-150	
13C2_PFDaA	1.0	0.85	85	50-150	
13C2_PFTeDA	1.0	0.91	91	50-150	
13C3_HFPO-DA	1.0	1.1	113	50-150	
d7-N-MeFOSE	1.0	0.89	89	10-150	
d9-N-EtFOSE	1.0	0.86	86	10-150	
d3-N-MeFOSA	1.0	0.89	89	10-150	
d5-N-EtFOSA	1.0	0.89	89	10-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99543
 Run File Name Q220623C_016
 Analyzed 06/24/2022 02:46
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.21	107	71-135		375-22-4
PFPeA	0.20	0.20	100	69-132		2706-90-3
HFPO-DA	0.20	0.18	88	70-140		13252-13-6
PFBS	0.18	0.18	102	72-128		375-73-5
PFHxA	0.20	0.19	97	70-132		307-24-4
4:2 FTS	0.19	0.16	84	62-145		757124-72-4
PFPeS	0.19	0.16	84	73-123		2706-91-4
PFHpA	0.20	0.23	115	71-131		375-85-9
DONA	0.19	0.19	99	70-140		919005-14-4
PFHxS	0.18	0.18	97	67-130		355-46-4
PFOA	0.20	0.22	112	69-133		335-67-1
6:2 FTS	0.19	0.20	105	64-140		27619-97-2
PFHpS	0.19	0.23	119	70-132		375-92-8
PFNA	0.20	0.19	94	72-129		375-95-1
PFOSAm	0.20	0.20	101	67-137		754-91-6
PFOS	0.18	0.19	104	68-136		1763-23-1
MeFOSA	0.20	0.18	88	70-140		31506-32-8
PFDA	0.20	0.18	92	69-133		335-76-2
EtFOSAm	0.20	0.20	98	70-140		4151-50-2
8:2 FTS	0.19	0.18	94	65-137		39108-34-4
9-CI-PF3ON	0.19	0.23	122	70-140		756426-58-1
PFNS	0.19	0.21	107	69-125		68259-12-1
PFUnDA	0.20	0.18	89	64-136		2058-94-8
NMeFOSAA	0.20	0.25	126	63-144		2355-31-9
NEtFOSAA	0.20	0.19	93	61-139		2991-50-6
PFDS	0.19	0.21	111	59-134		335-77-3
PFDOA	0.20	0.20	99	69-135		307-55-1
MeFOSE	0.20	0.21	107	70-140		24448-09-7
EtFOSE	0.20	0.20	98	70-140		1691-99-2
11-CI-PF3OUdS	0.19	0.22	117	70-140	I	763051-92-9
PFTrDA	0.20	0.22	109	66-139		72629-94-8
PFDoS	0.19	0.20	105	70-140		79780-39-5
PFTDA	0.20	0.21	103	69-133		376-06-7

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99543
 Run File Name Q220623C_016
 Analyzed 06/24/2022 02:46
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	6.18	6.16	1171	
13C4 PFOA	N/A	N/A	7.48	7.44	1468	
13C2 PFDA	N/A	N/A	8.78	8.74	1406	
13C4 PFOS	N/A	N/A	9.19	9.16	2216	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.72	4.73	1975	
13C5 PFPeA	N/A	N/A	5.52	5.51	1610	
13C3 PFBS	N/A	N/A	6.40	6.41	2530	
13C2 4:2FTS	N/A	N/A	5.90	5.91	719	
13C5 PFHxA	N/A	N/A	6.18	6.17	1149	
13C4 PFHpA	N/A	N/A	6.83	6.80	935	
13C3 PFHxS	N/A	N/A	7.85	7.84	1287	
13C2 6:2FTS	N/A	N/A	7.15	7.16	19308	
13C8 PFOA	N/A	N/A	7.48	7.43	1628	
13C9 PFNA	N/A	N/A	8.13	8.13	1719	
13C8 PFOS	N/A	N/A	9.19	9.17	1010	
13C2 8:2FTS	N/A	N/A	8.41	8.38	2647148	
13C6 PFDA	N/A	N/A	8.77	8.75	2181	
d3-MeFOSAA	N/A	N/A	8.69	8.65	5922	
13C8 PFOSA	N/A	N/A	11.28	11.25	1322	
d5-EtFOSAA	N/A	N/A	8.99	8.95	1280	
13C7 PFUdA	N/A	N/A	9.42	9.40	3888	
13C2 PFDoA	N/A	N/A	10.07	10.05	759	
13C2 PFTeDA	N/A	N/A	11.34	11.30	909	
13C3 HFPO-DA	N/A	N/A	6.45	6.43	1439	
d7-N-MeFOSE	N/A	N/A	12.97	12.95	341	
d9-N-EtFOSE	N/A	N/A	13.45	13.43	471	
d3-N-MeFOSA	N/A	N/A	13.17	13.16	474	
d5-N-EtFOSA	N/A	N/A	13.62	13.60	687	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99543
 Run File Name Q220623C_016
 Analyzed 06/24/2022 02:46
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.73	4.77	188	
PFPeA	N/A	N/A	5.52	5.54	398	
HFPO-DA	0.41	0.45	6.47	6.44	475	
PFBS	0.37	0.35	6.41	6.40	694	
PFHxA	0.07	0.09	6.19	6.17	202	
4:2 FTS	1.10	1.00	5.91	5.91	9645	
PFPeS	0.48	0.42	7.15	7.12	682	
PFHpA	0.37	0.48	6.84	6.81	40	
DONA	0.43	0.48	7.08	7.04	939	
PFHxS	0.36	0.35	7.85	7.82	765	
PFOA	0.31	0.34	7.49	7.44	209	
6:2 FTS	1.10	1.30	7.15	7.12	35	
PFHpS	0.35	0.30	8.54	8.51	1455	
PFNA	0.28	0.23	8.14	8.10	346	
PFOSAm	N/A	N/A	11.29	11.26	963	
PFOS	0.21	0.24	9.21	9.18	205	
MeFOSA	0.56	0.56	13.20	13.17	425	
PFDA	0.15	0.18	8.79	8.75	172	
EtFOSAm	0.44	0.46	13.65	13.62	665	
8:2 FTS	1.80	1.60	8.42	8.38	737	
9-CI-PF3ON	0.03	0.04	9.67	9.66	878	
PFNS	0.26	0.24	9.85	9.83	1445	
PFUnDA	0.15	0.20	9.43	9.40	269	
NMeFOSAA	0.60	1.10	8.70	8.66	142	
NEtFOSAA	0.54	0.43	9.00	8.96	122	
PFDS	0.26	0.26	10.50	10.47	998	
PFDOA	0.19	0.19	10.08	10.05	288	
MeFOSE	N/A	N/A	13.01	13.01	348	
EtFOSE	0.00	0.00	13.49	13.49	331	
11-CI-PF3OUdS	0.03	0.02	10.96	10.92	593	I
PFTrDA	0.16	0.18	10.72	10.69	334	
PFDoS	0.24	0.22	11.70	11.64	1232	
PFTDA	0.15	0.15	11.34	11.30	237	

REPORT OF LABORATORY ANALYSIS

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D

ATTACHMENT D

Groundwater Laboratory Reports

June 27, 2022

Nicole Laplant
ROBERT E. LEE & ASSOCIATES, IN
1250 Centennial Centre Blvd
Oneida, WI 54155

RE: Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

Dear Nicole Laplant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2022. 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,



Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Bruce Meissner, Robert E. Lee & Associates, Inc
Lori Rogers, Robert E Lee



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

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

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SAMPLE SUMMARY

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246740001	MW-1	Water	06/16/22 15:15	06/17/22 08:45
40246740002	MW-14	Water	06/16/22 16:20	06/17/22 08:45
40246740003	TW-20	Water	06/16/22 17:00	06/17/22 08:45
40246740004	TRIP BLANK	Water	06/16/22 17:20	06/17/22 08:45

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SAMPLE ANALYTE COUNT

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40246740001	MW-1	EPA 6010D	TXW	1
		EPA 8260	LAP	64
		SM 3500-Cr B	HNT	1
40246740002	MW-14	EPA 6010D	TXW	1
		EPA 8260	LAP	64
		SM 3500-Cr B	HNT	1
40246740003	TW-20	EPA 6010D	TXW	1
		EPA 8260	LAP	64
		SM 3500-Cr B	HNT	1
40246740004	TRIP BLANK	EPA 8260	LAP	64

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40246740001	MW-1					
EPA 6010D	Chromium, Dissolved	3.3J	ug/L	10.0	06/23/22 16:24	
EPA 8260	1,1-Dichloroethane	4.9J	ug/L	10.0	06/21/22 17:14	
EPA 8260	1,1-Dichloroethene	24.8	ug/L	10.0	06/21/22 17:14	
EPA 8260	Trichloroethene	902	ug/L	10.0	06/21/22 17:14	
EPA 8260	Vinyl chloride	750	ug/L	10.0	06/21/22 17:14	
EPA 8260	cis-1,2-Dichloroethene	442	ug/L	10.0	06/21/22 17:14	
EPA 8260	trans-1,2-Dichloroethene	41.6	ug/L	10.0	06/21/22 17:14	
40246740002	MW-14					
EPA 8260	1,1-Dichloroethene	150J	ug/L	250	06/21/22 16:54	
EPA 8260	Trichloroethene	28100	ug/L	250	06/21/22 16:54	
EPA 8260	Vinyl chloride	8300	ug/L	250	06/21/22 16:54	
EPA 8260	cis-1,2-Dichloroethene	32200	ug/L	250	06/21/22 16:54	
EPA 8260	trans-1,2-Dichloroethene	2530	ug/L	250	06/21/22 16:54	
40246740003	TW-20					
EPA 6010D	Chromium, Dissolved	4.5J	ug/L	10.0	06/23/22 16:28	
EPA 8260	1,1-Dichloroethane	406J	ug/L	625	06/21/22 16:34	
EPA 8260	1,1-Dichloroethene	687	ug/L	625	06/21/22 16:34	
EPA 8260	Trichloroethene	69200	ug/L	625	06/21/22 16:34	
EPA 8260	Vinyl chloride	40100	ug/L	625	06/21/22 16:34	
EPA 8260	cis-1,2-Dichloroethene	160000	ug/L	625	06/21/22 16:34	
EPA 8260	trans-1,2-Dichloroethene	2050	ug/L	625	06/21/22 16:34	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

Sample: MW-1 **Lab ID: 40246740001** Collected: 06/16/22 15:15 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Chromium, Dissolved	3.3J	ug/L	10.0	2.5	1	06/23/22 05:57	06/23/22 16:24	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	< 3.6	ug/L	10.0	3.6	10		06/21/22 17:14	630-20-6	
1,1,1-Trichloroethane	< 3.0	ug/L	10.0	3.0	10		06/21/22 17:14	71-55-6	
1,1,2,2-Tetrachloroethane	< 3.8	ug/L	10.0	3.8	10		06/21/22 17:14	79-34-5	
1,1,2-Trichloroethane	< 3.4	ug/L	50.0	3.4	10		06/21/22 17:14	79-00-5	
1,1-Dichloroethane	4.9J	ug/L	10.0	3.0	10		06/21/22 17:14	75-34-3	
1,1-Dichloroethene	24.8	ug/L	10.0	5.8	10		06/21/22 17:14	75-35-4	
1,1-Dichloropropene	< 4.1	ug/L	10.0	4.1	10		06/21/22 17:14	563-58-6	
1,2,3-Trichlorobenzene	< 10.2	ug/L	50.0	10.2	10		06/21/22 17:14	87-61-6	
1,2,3-Trichloropropane	< 5.6	ug/L	50.0	5.6	10		06/21/22 17:14	96-18-4	
1,2,4-Trichlorobenzene	< 9.5	ug/L	50.0	9.5	10		06/21/22 17:14	120-82-1	
1,2,4-Trimethylbenzene	< 4.5	ug/L	10.0	4.5	10		06/21/22 17:14	95-63-6	
1,2-Dibromo-3-chloropropane	< 23.7	ug/L	50.0	23.7	10		06/21/22 17:14	96-12-8	
1,2-Dibromoethane (EDB)	< 3.1	ug/L	10.0	3.1	10		06/21/22 17:14	106-93-4	
1,2-Dichlorobenzene	< 3.3	ug/L	10.0	3.3	10		06/21/22 17:14	95-50-1	
1,2-Dichloroethane	< 2.9	ug/L	10.0	2.9	10		06/21/22 17:14	107-06-2	
1,2-Dichloropropane	< 4.5	ug/L	10.0	4.5	10		06/21/22 17:14	78-87-5	
1,3,5-Trimethylbenzene	< 3.6	ug/L	10.0	3.6	10		06/21/22 17:14	108-67-8	
1,3-Dichlorobenzene	< 3.5	ug/L	10.0	3.5	10		06/21/22 17:14	541-73-1	
1,3-Dichloropropane	< 3.0	ug/L	10.0	3.0	10		06/21/22 17:14	142-28-9	
1,4-Dichlorobenzene	< 8.9	ug/L	10.0	8.9	10		06/21/22 17:14	106-46-7	
2,2-Dichloropropane	< 41.8	ug/L	50.0	41.8	10		06/21/22 17:14	594-20-7	
2-Chlorotoluene	< 8.9	ug/L	50.0	8.9	10		06/21/22 17:14	95-49-8	
4-Chlorotoluene	< 8.9	ug/L	50.0	8.9	10		06/21/22 17:14	106-43-4	
Benzene	< 3.0	ug/L	10.0	3.0	10		06/21/22 17:14	71-43-2	
Bromobenzene	< 3.6	ug/L	10.0	3.6	10		06/21/22 17:14	108-86-1	
Bromochloromethane	< 3.6	ug/L	50.0	3.6	10		06/21/22 17:14	74-97-5	
Bromodichloromethane	< 4.2	ug/L	10.0	4.2	10		06/21/22 17:14	75-27-4	
Bromoform	< 38.0	ug/L	50.0	38.0	10		06/21/22 17:14	75-25-2	
Bromomethane	< 11.9	ug/L	50.0	11.9	10		06/21/22 17:14	74-83-9	
Carbon tetrachloride	< 3.7	ug/L	10.0	3.7	10		06/21/22 17:14	56-23-5	
Chlorobenzene	< 8.6	ug/L	10.0	8.6	10		06/21/22 17:14	108-90-7	
Chloroethane	< 13.8	ug/L	50.0	13.8	10		06/21/22 17:14	75-00-3	
Chloroform	< 11.8	ug/L	50.0	11.8	10		06/21/22 17:14	67-66-3	
Chloromethane	< 16.4	ug/L	50.0	16.4	10		06/21/22 17:14	74-87-3	
Dibromochloromethane	< 26.4	ug/L	50.0	26.4	10		06/21/22 17:14	124-48-1	
Dibromomethane	< 9.9	ug/L	50.0	9.9	10		06/21/22 17:14	74-95-3	
Dichlorodifluoromethane	< 4.6	ug/L	50.0	4.6	10		06/21/22 17:14	75-71-8	
Diisopropyl ether	< 11.0	ug/L	50.0	11.0	10		06/21/22 17:14	108-20-3	
Ethylbenzene	< 3.3	ug/L	10.0	3.3	10		06/21/22 17:14	100-41-4	
Hexachloro-1,3-butadiene	< 27.4	ug/L	50.0	27.4	10		06/21/22 17:14	87-68-3	
Isopropylbenzene (Cumene)	< 10.0	ug/L	50.0	10.0	10		06/21/22 17:14	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

Sample: MW-1 **Lab ID: 40246740001** Collected: 06/16/22 15:15 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<11.3	ug/L	50.0	11.3	10		06/21/22 17:14	1634-04-4	
Methylene Chloride	<3.2	ug/L	50.0	3.2	10		06/21/22 17:14	75-09-2	
Naphthalene	<11.3	ug/L	50.0	11.3	10		06/21/22 17:14	91-20-3	
Styrene	<3.6	ug/L	10.0	3.6	10		06/21/22 17:14	100-42-5	
Tetrachloroethene	<4.1	ug/L	10.0	4.1	10		06/21/22 17:14	127-18-4	
Toluene	<2.9	ug/L	10.0	2.9	10		06/21/22 17:14	108-88-3	
Trichloroethene	902	ug/L	10.0	3.2	10		06/21/22 17:14	79-01-6	
Trichlorofluoromethane	<4.2	ug/L	10.0	4.2	10		06/21/22 17:14	75-69-4	
Vinyl chloride	750	ug/L	10.0	1.7	10		06/21/22 17:14	75-01-4	
cis-1,2-Dichloroethene	442	ug/L	10.0	4.7	10		06/21/22 17:14	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	10.0	3.6	10		06/21/22 17:14	10061-01-5	
m&p-Xylene	<7.0	ug/L	20.0	7.0	10		06/21/22 17:14	179601-23-1	
n-Butylbenzene	<8.6	ug/L	10.0	8.6	10		06/21/22 17:14	104-51-8	
n-Propylbenzene	<3.5	ug/L	10.0	3.5	10		06/21/22 17:14	103-65-1	
o-Xylene	<3.5	ug/L	10.0	3.5	10		06/21/22 17:14	95-47-6	
p-Isopropyltoluene	<10.4	ug/L	50.0	10.4	10		06/21/22 17:14	99-87-6	
sec-Butylbenzene	<4.2	ug/L	10.0	4.2	10		06/21/22 17:14	135-98-8	
tert-Butylbenzene	<5.9	ug/L	10.0	5.9	10		06/21/22 17:14	98-06-6	
trans-1,2-Dichloroethene	41.6	ug/L	10.0	5.3	10		06/21/22 17:14	156-60-5	
trans-1,3-Dichloropropene	<34.6	ug/L	50.0	34.6	10		06/21/22 17:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		10		06/21/22 17:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		10		06/21/22 17:14	2199-69-1	
Toluene-d8 (S)	100	%	70-130		10		06/21/22 17:14	2037-26-5	

Chromium, Hexavalent

Analytical Method: SM 3500-Cr B
Pace Analytical Services - Green Bay

Chromium, Hexavalent <0.0073 mg/L 0.024 0.0073 1 06/21/22 13:35

Sample: MW-14 **Lab ID: 40246740002** Collected: 06/16/22 16:20 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/23/22 05:57	06/23/22 16:26	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<88.8	ug/L	250	88.8	250		06/21/22 16:54	630-20-6	
1,1,1-Trichloroethane	<75.6	ug/L	250	75.6	250		06/21/22 16:54	71-55-6	
1,1,2,2-Tetrachloroethane	<94.5	ug/L	250	94.5	250		06/21/22 16:54	79-34-5	
1,1,2-Trichloroethane	<86.1	ug/L	1250	86.1	250		06/21/22 16:54	79-00-5	

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ANALYTICAL RESULTS

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

Sample: MW-14 **Lab ID: 40246740002** Collected: 06/16/22 16:20 Received: 06/17/22 08:45 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-Dichloroethane	<73.9	ug/L	250	73.9	250		06/21/22 16:54	75-34-3	
1,1-Dichloroethene	150J	ug/L	250	146	250		06/21/22 16:54	75-35-4	
1,1-Dichloropropene	<103	ug/L	250	103	250		06/21/22 16:54	563-58-6	
1,2,3-Trichlorobenzene	<255	ug/L	1250	255	250		06/21/22 16:54	87-61-6	
1,2,3-Trichloropropane	<139	ug/L	1250	139	250		06/21/22 16:54	96-18-4	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		06/21/22 16:54	120-82-1	
1,2,4-Trimethylbenzene	<112	ug/L	250	112	250		06/21/22 16:54	95-63-6	
1,2-Dibromo-3-chloropropane	<592	ug/L	1250	592	250		06/21/22 16:54	96-12-8	
1,2-Dibromoethane (EDB)	<77.3	ug/L	250	77.3	250		06/21/22 16:54	106-93-4	
1,2-Dichlorobenzene	<81.5	ug/L	250	81.5	250		06/21/22 16:54	95-50-1	
1,2-Dichloroethane	<72.9	ug/L	250	72.9	250		06/21/22 16:54	107-06-2	
1,2-Dichloropropane	<112	ug/L	250	112	250		06/21/22 16:54	78-87-5	
1,3,5-Trimethylbenzene	<89.3	ug/L	250	89.3	250		06/21/22 16:54	108-67-8	
1,3-Dichlorobenzene	<87.8	ug/L	250	87.8	250		06/21/22 16:54	541-73-1	
1,3-Dichloropropane	<76.2	ug/L	250	76.2	250		06/21/22 16:54	142-28-9	
1,4-Dichlorobenzene	<223	ug/L	250	223	250		06/21/22 16:54	106-46-7	
2,2-Dichloropropane	<1040	ug/L	1250	1040	250		06/21/22 16:54	594-20-7	
2-Chlorotoluene	<222	ug/L	1250	222	250		06/21/22 16:54	95-49-8	
4-Chlorotoluene	<224	ug/L	1250	224	250		06/21/22 16:54	106-43-4	
Benzene	<73.9	ug/L	250	73.9	250		06/21/22 16:54	71-43-2	
Bromobenzene	<90.2	ug/L	250	90.2	250		06/21/22 16:54	108-86-1	
Bromochloromethane	<89.4	ug/L	1250	89.4	250		06/21/22 16:54	74-97-5	
Bromodichloromethane	<104	ug/L	250	104	250		06/21/22 16:54	75-27-4	
Bromoform	<950	ug/L	1250	950	250		06/21/22 16:54	75-25-2	
Bromomethane	<298	ug/L	1250	298	250		06/21/22 16:54	74-83-9	
Carbon tetrachloride	<92.3	ug/L	250	92.3	250		06/21/22 16:54	56-23-5	
Chlorobenzene	<214	ug/L	250	214	250		06/21/22 16:54	108-90-7	
Chloroethane	<345	ug/L	1250	345	250		06/21/22 16:54	75-00-3	
Chloroform	<296	ug/L	1250	296	250		06/21/22 16:54	67-66-3	
Chloromethane	<409	ug/L	1250	409	250		06/21/22 16:54	74-87-3	
Dibromochloromethane	<661	ug/L	1250	661	250		06/21/22 16:54	124-48-1	
Dibromomethane	<248	ug/L	1250	248	250		06/21/22 16:54	74-95-3	
Dichlorodifluoromethane	<114	ug/L	1250	114	250		06/21/22 16:54	75-71-8	
Diisopropyl ether	<275	ug/L	1250	275	250		06/21/22 16:54	108-20-3	
Ethylbenzene	<81.3	ug/L	250	81.3	250		06/21/22 16:54	100-41-4	
Hexachloro-1,3-butadiene	<684	ug/L	1250	684	250		06/21/22 16:54	87-68-3	
Isopropylbenzene (Cumene)	<250	ug/L	1250	250	250		06/21/22 16:54	98-82-8	
Methyl-tert-butyl ether	<282	ug/L	1250	282	250		06/21/22 16:54	1634-04-4	
Methylene Chloride	<79.9	ug/L	1250	79.9	250		06/21/22 16:54	75-09-2	
Naphthalene	<282	ug/L	1250	282	250		06/21/22 16:54	91-20-3	
Styrene	<89.1	ug/L	250	89.1	250		06/21/22 16:54	100-42-5	
Tetrachloroethene	<102	ug/L	250	102	250		06/21/22 16:54	127-18-4	
Toluene	<72.0	ug/L	250	72.0	250		06/21/22 16:54	108-88-3	
Trichloroethene	28100	ug/L	250	79.9	250		06/21/22 16:54	79-01-6	
Trichlorofluoromethane	<105	ug/L	250	105	250		06/21/22 16:54	75-69-4	

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ANALYTICAL RESULTS

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

Sample: MW-14 **Lab ID: 40246740002** Collected: 06/16/22 16:20 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Vinyl chloride	8300	ug/L	250	43.6	250		06/21/22 16:54	75-01-4	
cis-1,2-Dichloroethene	32200	ug/L	250	118	250		06/21/22 16:54	156-59-2	
cis-1,3-Dichloropropene	<89.5	ug/L	250	89.5	250		06/21/22 16:54	10061-01-5	
m&p-Xylene	<175	ug/L	500	175	250		06/21/22 16:54	179601-23-1	
n-Butylbenzene	<214	ug/L	250	214	250		06/21/22 16:54	104-51-8	
n-Propylbenzene	<86.3	ug/L	250	86.3	250		06/21/22 16:54	103-65-1	
o-Xylene	<86.9	ug/L	250	86.9	250		06/21/22 16:54	95-47-6	
p-Isopropyltoluene	<261	ug/L	1250	261	250		06/21/22 16:54	99-87-6	
sec-Butylbenzene	<106	ug/L	250	106	250		06/21/22 16:54	135-98-8	
tert-Butylbenzene	<147	ug/L	250	147	250		06/21/22 16:54	98-06-6	
trans-1,2-Dichloroethene	2530	ug/L	250	132	250		06/21/22 16:54	156-60-5	
trans-1,3-Dichloropropene	<866	ug/L	1250	866	250		06/21/22 16:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		250		06/21/22 16:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		250		06/21/22 16:54	2199-69-1	
Toluene-d8 (S)	101	%	70-130		250		06/21/22 16:54	2037-26-5	

Chromium, Hexavalent

Analytical Method: SM 3500-Cr B
Pace Analytical Services - Green Bay

Chromium, Hexavalent	<0.018	mg/L	0.061	0.018	2.5		06/21/22 13:36		D3
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Sample: TW-20 **Lab ID: 40246740003** Collected: 06/16/22 17:00 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Chromium, Dissolved	4.5J	ug/L	10.0	2.5	1	06/23/22 05:57	06/23/22 16:28	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<222	ug/L	625	222	625		06/21/22 16:34	630-20-6	
1,1,1-Trichloroethane	<189	ug/L	625	189	625		06/21/22 16:34	71-55-6	
1,1,2,2-Tetrachloroethane	<236	ug/L	625	236	625		06/21/22 16:34	79-34-5	
1,1,2-Trichloroethane	<215	ug/L	3120	215	625		06/21/22 16:34	79-00-5	
1,1-Dichloroethane	406J	ug/L	625	185	625		06/21/22 16:34	75-34-3	
1,1-Dichloroethene	687	ug/L	625	364	625		06/21/22 16:34	75-35-4	
1,1-Dichloropropene	<256	ug/L	625	256	625		06/21/22 16:34	563-58-6	
1,2,3-Trichlorobenzene	<636	ug/L	3120	636	625		06/21/22 16:34	87-61-6	
1,2,3-Trichloropropane	<347	ug/L	3120	347	625		06/21/22 16:34	96-18-4	
1,2,4-Trichlorobenzene	<594	ug/L	3120	594	625		06/21/22 16:34	120-82-1	
1,2,4-Trimethylbenzene	<280	ug/L	625	280	625		06/21/22 16:34	95-63-6	
1,2-Dibromo-3-chloropropane	<1480	ug/L	3120	1480	625		06/21/22 16:34	96-12-8	

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ANALYTICAL RESULTS

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

Sample: TW-20 Lab ID: 40246740003 Collected: 06/16/22 17:00 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2-Dibromoethane (EDB)	<193	ug/L	625	193	625		06/21/22 16:34	106-93-4	
1,2-Dichlorobenzene	<204	ug/L	625	204	625		06/21/22 16:34	95-50-1	
1,2-Dichloroethane	<182	ug/L	625	182	625		06/21/22 16:34	107-06-2	
1,2-Dichloropropane	<280	ug/L	625	280	625		06/21/22 16:34	78-87-5	
1,3,5-Trimethylbenzene	<223	ug/L	625	223	625		06/21/22 16:34	108-67-8	
1,3-Dichlorobenzene	<219	ug/L	625	219	625		06/21/22 16:34	541-73-1	
1,3-Dichloropropane	<190	ug/L	625	190	625		06/21/22 16:34	142-28-9	
1,4-Dichlorobenzene	<558	ug/L	625	558	625		06/21/22 16:34	106-46-7	
2,2-Dichloropropane	<2610	ug/L	3120	2610	625		06/21/22 16:34	594-20-7	
2-Chlorotoluene	<556	ug/L	3120	556	625		06/21/22 16:34	95-49-8	
4-Chlorotoluene	<559	ug/L	3120	559	625		06/21/22 16:34	106-43-4	
Benzene	<185	ug/L	625	185	625		06/21/22 16:34	71-43-2	
Bromobenzene	<226	ug/L	625	226	625		06/21/22 16:34	108-86-1	
Bromochloromethane	<224	ug/L	3120	224	625		06/21/22 16:34	74-97-5	
Bromodichloromethane	<260	ug/L	625	260	625		06/21/22 16:34	75-27-4	
Bromoform	<2370	ug/L	3120	2370	625		06/21/22 16:34	75-25-2	
Bromomethane	<745	ug/L	3120	745	625		06/21/22 16:34	74-83-9	
Carbon tetrachloride	<231	ug/L	625	231	625		06/21/22 16:34	56-23-5	
Chlorobenzene	<535	ug/L	625	535	625		06/21/22 16:34	108-90-7	
Chloroethane	<862	ug/L	3120	862	625		06/21/22 16:34	75-00-3	
Chloroform	<739	ug/L	3120	739	625		06/21/22 16:34	67-66-3	
Chloromethane	<1020	ug/L	3120	1020	625		06/21/22 16:34	74-87-3	
Dibromochloromethane	<1650	ug/L	3120	1650	625		06/21/22 16:34	124-48-1	
Dibromomethane	<619	ug/L	3120	619	625		06/21/22 16:34	74-95-3	
Dichlorodifluoromethane	<285	ug/L	3120	285	625		06/21/22 16:34	75-71-8	
Diisopropyl ether	<688	ug/L	3120	688	625		06/21/22 16:34	108-20-3	
Ethylbenzene	<203	ug/L	625	203	625		06/21/22 16:34	100-41-4	
Hexachloro-1,3-butadiene	<1710	ug/L	3120	1710	625		06/21/22 16:34	87-68-3	
Isopropylbenzene (Cumene)	<625	ug/L	3120	625	625		06/21/22 16:34	98-82-8	
Methyl-tert-butyl ether	<706	ug/L	3120	706	625		06/21/22 16:34	1634-04-4	
Methylene Chloride	<200	ug/L	3120	200	625		06/21/22 16:34	75-09-2	
Naphthalene	<706	ug/L	3120	706	625		06/21/22 16:34	91-20-3	
Styrene	<223	ug/L	625	223	625		06/21/22 16:34	100-42-5	
Tetrachloroethene	<255	ug/L	625	255	625		06/21/22 16:34	127-18-4	
Toluene	<180	ug/L	625	180	625		06/21/22 16:34	108-88-3	
Trichloroethene	69200	ug/L	625	200	625		06/21/22 16:34	79-01-6	
Trichlorofluoromethane	<262	ug/L	625	262	625		06/21/22 16:34	75-69-4	
Vinyl chloride	40100	ug/L	625	109	625		06/21/22 16:34	75-01-4	
cis-1,2-Dichloroethene	160000	ug/L	625	295	625		06/21/22 16:34	156-59-2	
cis-1,3-Dichloropropene	<224	ug/L	625	224	625		06/21/22 16:34	10061-01-5	
m&p-Xylene	<438	ug/L	1250	438	625		06/21/22 16:34	179601-23-1	
n-Butylbenzene	<536	ug/L	625	536	625		06/21/22 16:34	104-51-8	
n-Propylbenzene	<216	ug/L	625	216	625		06/21/22 16:34	103-65-1	
o-Xylene	<217	ug/L	625	217	625		06/21/22 16:34	95-47-6	
p-Isopropyltoluene	<652	ug/L	3120	652	625		06/21/22 16:34	99-87-6	

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ANALYTICAL RESULTS

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

Sample: TW-20 **Lab ID: 40246740003** Collected: 06/16/22 17:00 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
sec-Butylbenzene	<265	ug/L	625	265	625		06/21/22 16:34	135-98-8	
tert-Butylbenzene	<366	ug/L	625	366	625		06/21/22 16:34	98-06-6	
trans-1,2-Dichloroethene	2050	ug/L	625	330	625		06/21/22 16:34	156-60-5	
trans-1,3-Dichloropropene	<2160	ug/L	3120	2160	625		06/21/22 16:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		625		06/21/22 16:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		625		06/21/22 16:34	2199-69-1	
Toluene-d8 (S)	98	%	70-130		625		06/21/22 16:34	2037-26-5	

Chromium, Hexavalent									
Analytical Method: SM 3500-Cr B									
Pace Analytical Services - Green Bay									
Chromium, Hexavalent	<0.073	mg/L	0.24	0.073	10		06/21/22 13:36		D3

Sample: TRIP BLANK **Lab ID: 40246740004** Collected: 06/16/22 17:20 Received: 06/17/22 08:45 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		06/21/22 11:41	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 11:41	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/21/22 11:41	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/21/22 11:41	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 11:41	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/21/22 11:41	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/21/22 11:41	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/21/22 11:41	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/21/22 11:41	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/22 11:41	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/21/22 11:41	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/21/22 11:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/21/22 11:41	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 11:41	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/21/22 11:41	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/21/22 11:41	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 11:41	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 11:41	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/21/22 11:41	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/21/22 11:41	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/21/22 11:41	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 11:41	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 11:41	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/21/22 11:41	71-43-2	

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ANALYTICAL RESULTS

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

Sample: TRIP BLANK **Lab ID: 40246740004** Collected: 06/16/22 17:20 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 11:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/22 11:41	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 11:41	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/21/22 11:41	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/21/22 11:41	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/21/22 11:41	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 11:41	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/21/22 11:41	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/21/22 11:41	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/21/22 11:41	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/21/22 11:41	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/21/22 11:41	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/21/22 11:41	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 11:41	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 11:41	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/21/22 11:41	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/21/22 11:41	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 11:41	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/21/22 11:41	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/21/22 11:41	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/21/22 11:41	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/21/22 11:41	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/21/22 11:41	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/21/22 11:41	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 11:41	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 11:41	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/21/22 11:41	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/21/22 11:41	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/21/22 11:41	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 11:41	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 11:41	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/21/22 11:41	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/21/22 11:41	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/22 11:41	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/21/22 11:41	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/21/22 11:41	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/21/22 11:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/21/22 11:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		06/21/22 11:41	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/21/22 11:41	2037-26-5	

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QUALITY CONTROL DATA

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

QC Batch: 419169	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D MET Dissolved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246740001, 40246740002, 40246740003

METHOD BLANK: 2413835 Matrix: Water
Associated Lab Samples: 40246740001, 40246740002, 40246740003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Dissolved	ug/L	<2.5	10.0	06/23/22 15:44	

LABORATORY CONTROL SAMPLE: 2413836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Dissolved	ug/L	250	255	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413837 2413838

Parameter	Units	2413837		2413838		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chromium, Dissolved	ug/L	<2.5	250	250	258	100	103	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

QC Batch: 418738 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246740001, 40246740002, 40246740003, 40246740004

METHOD BLANK: 2411724 Matrix: Water
Associated Lab Samples: 40246740001, 40246740002, 40246740003, 40246740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/21/22 07:58	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/21/22 07:58	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/21/22 07:58	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/21/22 07:58	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/21/22 07:58	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/21/22 07:58	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/21/22 07:58	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/21/22 07:58	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	06/21/22 07:58	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/21/22 07:58	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/21/22 07:58	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/21/22 07:58	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/21/22 07:58	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/21/22 07:58	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/21/22 07:58	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/21/22 07:58	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/21/22 07:58	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/21/22 07:58	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/21/22 07:58	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/21/22 07:58	
2,2-Dichloropropane	ug/L	<4.2	5.0	06/21/22 07:58	
2-Chlorotoluene	ug/L	<0.89	5.0	06/21/22 07:58	
4-Chlorotoluene	ug/L	<0.89	5.0	06/21/22 07:58	
Benzene	ug/L	<0.30	1.0	06/21/22 07:58	
Bromobenzene	ug/L	<0.36	1.0	06/21/22 07:58	
Bromochloromethane	ug/L	<0.36	5.0	06/21/22 07:58	
Bromodichloromethane	ug/L	<0.42	1.0	06/21/22 07:58	
Bromoform	ug/L	<3.8	5.0	06/21/22 07:58	
Bromomethane	ug/L	<1.2	5.0	06/21/22 07:58	
Carbon tetrachloride	ug/L	<0.37	1.0	06/21/22 07:58	
Chlorobenzene	ug/L	<0.86	1.0	06/21/22 07:58	
Chloroethane	ug/L	<1.4	5.0	06/21/22 07:58	
Chloroform	ug/L	<1.2	5.0	06/21/22 07:58	
Chloromethane	ug/L	<1.6	5.0	06/21/22 07:58	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/21/22 07:58	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	06/21/22 07:58	
Dibromochloromethane	ug/L	<2.6	5.0	06/21/22 07:58	
Dibromomethane	ug/L	<0.99	5.0	06/21/22 07:58	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/21/22 07:58	
Diisopropyl ether	ug/L	<1.1	5.0	06/21/22 07:58	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

METHOD BLANK: 2411724

Matrix: Water

Associated Lab Samples: 40246740001, 40246740002, 40246740003, 40246740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/21/22 07:58	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/21/22 07:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/21/22 07:58	
m&p-Xylene	ug/L	<0.70	2.0	06/21/22 07:58	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/21/22 07:58	
Methylene Chloride	ug/L	<0.32	5.0	06/21/22 07:58	
n-Butylbenzene	ug/L	<0.86	1.0	06/21/22 07:58	
n-Propylbenzene	ug/L	<0.35	1.0	06/21/22 07:58	
Naphthalene	ug/L	<1.1	5.0	06/21/22 07:58	
o-Xylene	ug/L	<0.35	1.0	06/21/22 07:58	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/21/22 07:58	
sec-Butylbenzene	ug/L	<0.42	1.0	06/21/22 07:58	
Styrene	ug/L	<0.36	1.0	06/21/22 07:58	
tert-Butylbenzene	ug/L	<0.59	1.0	06/21/22 07:58	
Tetrachloroethene	ug/L	<0.41	1.0	06/21/22 07:58	
Toluene	ug/L	<0.29	1.0	06/21/22 07:58	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/21/22 07:58	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/21/22 07:58	
Trichloroethene	ug/L	<0.32	1.0	06/21/22 07:58	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/21/22 07:58	
Vinyl chloride	ug/L	<0.17	1.0	06/21/22 07:58	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130	06/21/22 07:58	
4-Bromofluorobenzene (S)	%	99	70-130	06/21/22 07:58	
Toluene-d8 (S)	%	101	70-130	06/21/22 07:58	

LABORATORY CONTROL SAMPLE: 2411725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.9	116	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	69-130	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethene	ug/L	50	50.9	102	74-131	
1,2,4-Trichlorobenzene	ug/L	50	49.2	98	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.6	91	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	50.8	102	70-137	
1,2-Dichloropropane	ug/L	50	45.3	91	80-121	
1,3-Dichlorobenzene	ug/L	50	53.6	107	70-130	
1,4-Dichlorobenzene	ug/L	50	50.7	101	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Bromodichloromethane	ug/L	50	50.3	101	70-130	
Bromoform	ug/L	50	55.3	111	70-130	

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QUALITY CONTROL DATA

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

LABORATORY CONTROL SAMPLE: 2411725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	32.7	65	21-147	
Carbon tetrachloride	ug/L	50	59.9	120	80-146	
Chlorobenzene	ug/L	50	52.4	105	70-130	
Chloroethane	ug/L	50	41.0	82	52-165	
Chloroform	ug/L	50	53.9	108	80-123	
Chloromethane	ug/L	50	32.5	65	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.6	97	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.1	102	70-130	
Dibromochloromethane	ug/L	50	53.8	108	70-130	
Dichlorodifluoromethane	ug/L	50	23.6	47	25-121	
Ethylbenzene	ug/L	50	52.4	105	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	52.2	104	70-130	
Methylene Chloride	ug/L	50	51.3	103	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	55.0	110	70-130	
Toluene	ug/L	50	49.9	100	80-120	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	70-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
Trichlorofluoromethane	ug/L	50	52.5	105	65-160	
Vinyl chloride	ug/L	50	36.1	72	63-134	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412553 2412554

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246723002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	55.9	57.7	112	115	70-134	3	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	46.2	48.3	92	97	61-135	5	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	46.5	49.9	93	100	70-130	7	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	47.5	49.6	95	99	70-130	4	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	49.0	50.9	98	102	71-130	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.3	50.1	95	100	68-131	6	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	44.2	48.0	88	96	51-141	8	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	46.4	50.1	93	100	70-130	8	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.8	51.6	96	103	70-130	8	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	50.0	52.3	100	105	70-137	4	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	44.1	46.8	88	94	80-121	6	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50.5	54.4	101	109	70-130	7	20		

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QUALITY CONTROL DATA

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412553		2412554		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40246723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dichlorobenzene	ug/L	<0.89	50	50	48.7	52.6	97	105	70-130	8	20		
Benzene	ug/L	<0.30	50	50	46.6	48.6	93	97	70-130	4	20		
Bromodichloromethane	ug/L	<0.42	50	50	49.3	51.5	99	103	70-130	4	20		
Bromoform	ug/L	<3.8	50	50	51.4	55.7	103	111	70-133	8	20		
Bromomethane	ug/L	<1.2	50	50	35.3	39.3	71	79	21-149	11	22		
Carbon tetrachloride	ug/L	<0.37	50	50	57.5	59.3	115	119	80-146	3	20		
Chlorobenzene	ug/L	<0.86	50	50	49.2	53.2	98	106	70-130	8	20		
Chloroethane	ug/L	<1.4	50	50	41.2	41.1	82	82	52-165	0	20		
Chloroform	ug/L	<1.2	50	50	53.0	55.2	106	110	80-123	4	20		
Chloromethane	ug/L	<1.6	50	50	31.3	32.1	63	64	42-125	2	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.9	50.3	96	101	70-130	5	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	49.6	51.8	99	104	70-130	4	20		
Dibromochloromethane	ug/L	<2.6	50	50	51.1	53.9	102	108	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	21.7	22.8	43	46	25-121	5	20		
Ethylbenzene	ug/L	<0.33	50	50	49.3	52.2	99	104	80-121	6	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.2	53.1	100	106	70-130	6	20		
m&p-Xylene	ug/L	<0.70	100	100	97.0	103	97	103	70-130	6	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50.4	53.5	101	107	70-130	6	20		
Methylene Chloride	ug/L	<0.32	50	50	50.2	52.6	100	105	70-130	5	20		
o-Xylene	ug/L	<0.35	50	50	49.0	51.8	98	104	70-130	6	20		
Styrene	ug/L	<0.36	50	50	47.7	52.0	95	104	70-132	9	20		
Tetrachloroethene	ug/L	<0.41	50	50	52.6	54.8	105	110	70-130	4	20		
Toluene	ug/L	<0.29	50	50	47.6	50.3	95	101	80-120	5	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	52.9	55.4	106	111	70-130	5	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	48.1	51.7	96	103	70-130	7	20		
Trichloroethene	ug/L	<0.32	50	50	50.2	52.8	100	106	70-130	5	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	50.0	52.0	100	104	65-160	4	20		
Vinyl chloride	ug/L	<0.17	50	50	34.6	36.0	69	72	60-137	4	20		
1,2-Dichlorobenzene-d4 (S)	%						99	100	70-130				
4-Bromofluorobenzene (S)	%						99	98	70-130				
Toluene-d8 (S)	%						99	101	70-130				

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QUALITY CONTROL DATA

Project: 1162-013 JAGEMANN PLATING
Pace Project No.: 40246740

QC Batch: 418917 Analysis Method: SM 3500-Cr B
QC Batch Method: SM 3500-Cr B Analysis Description: Chromium, Hexavalent by 3500
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246740001, 40246740002, 40246740003

METHOD BLANK: 2412352 Matrix: Water
Associated Lab Samples: 40246740001, 40246740002, 40246740003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0073	0.024	06/21/22 13:25	

LABORATORY CONTROL SAMPLE: 2412353

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	0.3	0.30	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412383 2412384

Parameter	Units	2412383		2412384		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chromium, Hexavalent	mg/L	<0.0073	0.3	0.3	0.039	0.038	13	12	90-110	2	20 M0

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QUALIFIERS

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740

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

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1162-013 JAGEMANN PLATING

Pace Project No.: 40246740


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246740001	MW-1	EPA 3010A	419169	EPA 6010D	419248
40246740002	MW-14	EPA 3010A	419169	EPA 6010D	419248
40246740003	TW-20	EPA 3010A	419169	EPA 6010D	419248
40246740001	MW-1	EPA 8260	418738		
40246740002	MW-14	EPA 8260	418738		
40246740003	TW-20	EPA 8260	418738		
40246740004	TRIP BLANK	EPA 8260	418738		
40246740001	MW-1	SM 3500-Cr B	418917		
40246740002	MW-14	SM 3500-Cr B	418917		
40246740003	TW-20	SM 3500-Cr B	418917		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Client Name: BEL
 Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Project #: **WO# : 40246740**

 40246740

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 - 110 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 1 /ICorr: 1

Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 01/17/22 /Initials: JP
 Labeled By Initials: mt

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
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 checked="" type="checkbox"/> Yes <input 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>483</u>		

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

June 30, 2022

Nicole Laplant
ROBERT E. LEE & ASSOCIATES, IN
1250 Centennial Centre Blvd
Oneida, WI 54155

RE: Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

Dear Nicole Laplant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2022. 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,



Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Cody Applekamp, Robert E Lee & Associates, Inc.
Alan Gustafson, Robert E. Lee & Associates
Bruce Meissner, Robert E. Lee & Associates, Inc
Lori Rogers, Robert E Lee



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

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

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SAMPLE SUMMARY

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246743001	MW5	Water	06/16/22 10:40	06/17/22 08:45
40246743002	PZ-3	Water	06/16/22 11:40	06/17/22 08:45
40246743003	MW19	Water	06/16/22 13:05	06/17/22 08:45
40246743004	PZ-13	Water	06/16/22 14:10	06/17/22 08:45
40246743005	TRIP BLANK	Water	06/16/22 17:15	06/17/22 08:45

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SAMPLE ANALYTE COUNT

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40246743001	MW5	EPA 6010D	TXW	7
		EPA 7470	AJT	1
		EPA 8260	LAP	64
40246743002	PZ-3	EPA 6010D	TXW	7
		EPA 7470	AJT	1
		EPA 8260	LAP	64
40246743003	MW19	EPA 6010D	TXW	7
		EPA 7470	AJT	1
		EPA 8260	LAP	64
40246743004	PZ-13	EPA 6010D	TXW	7
		EPA 7470	AJT	1
		EPA 8260	LAP	64
40246743005	TRIP BLANK	EPA 8260	LAP	64

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40246743001	MW5					
EPA 6010D	Barium, Dissolved	124	ug/L	5.0	06/23/22 15:48	
40246743002	PZ-3					
EPA 6010D	Barium, Dissolved	26.5	ug/L	5.0	06/23/22 15:57	
EPA 8260	Trichloroethene	0.43J	ug/L	1.0	06/21/22 13:38	
40246743003	MW19					
EPA 6010D	Barium, Dissolved	115	ug/L	5.0	06/23/22 16:02	
40246743004	PZ-13					
EPA 6010D	Barium, Dissolved	22.4	ug/L	5.0	06/23/22 16:05	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

Sample: MW5 **Lab ID: 40246743001** Collected: 06/16/22 10:40 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/23/22 05:57	06/23/22 15:48	7440-38-2	
Barium, Dissolved	124	ug/L	5.0	1.5	1	06/23/22 05:57	06/23/22 15:48	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/23/22 05:57	06/23/22 15:48	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/23/22 05:57	06/23/22 15:48	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/23/22 05:57	06/23/22 15:48	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/23/22 05:57	06/23/22 15:48	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/23/22 05:57	06/23/22 15:48	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	06/29/22 10:00	06/30/22 09:09	7439-97-6	
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		06/21/22 12:59	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 12:59	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/21/22 12:59	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/21/22 12:59	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 12:59	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/21/22 12:59	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/21/22 12:59	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/21/22 12:59	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/21/22 12:59	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/22 12:59	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/21/22 12:59	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/21/22 12:59	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/21/22 12:59	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 12:59	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/21/22 12:59	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/21/22 12:59	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:59	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 12:59	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/21/22 12:59	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/21/22 12:59	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/21/22 12:59	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 12:59	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 12:59	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/21/22 12:59	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:59	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/22 12:59	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 12:59	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/21/22 12:59	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/21/22 12:59	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/21/22 12:59	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 12:59	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Sample: MW5 **Lab ID: 40246743001** Collected: 06/16/22 10:40 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/21/22 12:59	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/21/22 12:59	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/21/22 12:59	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/21/22 12:59	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/21/22 12:59	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/21/22 12:59	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 12:59	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 12:59	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/21/22 12:59	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/21/22 12:59	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 12:59	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/21/22 12:59	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/21/22 12:59	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:59	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/21/22 12:59	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/21/22 12:59	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/21/22 12:59	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 12:59	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 12:59	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/21/22 12:59	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:59	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/21/22 12:59	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 12:59	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 12:59	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/21/22 12:59	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/21/22 12:59	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/22 12:59	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/21/22 12:59	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/21/22 12:59	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/21/22 12:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/21/22 12:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		06/21/22 12:59	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		06/21/22 12:59	2037-26-5	

Sample: PZ-3 **Lab ID: 40246743002** Collected: 06/16/22 11:40 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/23/22 05:57	06/23/22 15:57	7440-38-2	
Barium, Dissolved	26.5	ug/L	5.0	1.5	1	06/23/22 05:57	06/23/22 15:57	7440-39-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

Sample: PZ-3 **Lab ID: 40246743002** Collected: 06/16/22 11:40 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/23/22 05:57	06/23/22 15:57	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/23/22 05:57	06/23/22 15:57	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/23/22 05:57	06/23/22 15:57	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/23/22 05:57	06/23/22 15:57	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/23/22 05:57	06/23/22 15:57	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	06/29/22 10:00	06/30/22 09:11	7439-97-6	
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		06/21/22 13:38	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 13:38	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/21/22 13:38	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/21/22 13:38	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 13:38	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/21/22 13:38	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/21/22 13:38	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/21/22 13:38	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/21/22 13:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/22 13:38	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/21/22 13:38	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/21/22 13:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/21/22 13:38	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 13:38	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/21/22 13:38	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/21/22 13:38	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:38	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 13:38	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/21/22 13:38	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/21/22 13:38	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/21/22 13:38	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 13:38	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 13:38	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/21/22 13:38	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/22 13:38	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 13:38	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/21/22 13:38	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/21/22 13:38	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/21/22 13:38	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 13:38	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/21/22 13:38	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/21/22 13:38	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

Sample: PZ-3 **Lab ID: 40246743002** Collected: 06/16/22 11:40 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/21/22 13:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/21/22 13:38	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/21/22 13:38	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/21/22 13:38	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 13:38	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 13:38	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/21/22 13:38	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/21/22 13:38	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 13:38	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/21/22 13:38	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/21/22 13:38	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:38	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/21/22 13:38	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/21/22 13:38	108-88-3	
Trichloroethene	0.43J	ug/L	1.0	0.32	1		06/21/22 13:38	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 13:38	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 13:38	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/21/22 13:38	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:38	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/21/22 13:38	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 13:38	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 13:38	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/21/22 13:38	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/21/22 13:38	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/22 13:38	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/21/22 13:38	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/21/22 13:38	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/21/22 13:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/21/22 13:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	70-130		1		06/21/22 13:38	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		06/21/22 13:38	2037-26-5	

Sample: MW19 **Lab ID: 40246743003** Collected: 06/16/22 13:05 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/23/22 05:57	06/23/22 16:02	7440-38-2	
Barium, Dissolved	115	ug/L	5.0	1.5	1	06/23/22 05:57	06/23/22 16:02	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/23/22 05:57	06/23/22 16:02	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/23/22 05:57	06/23/22 16:02	7440-47-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Sample: MW19 **Lab ID: 40246743003** Collected: 06/16/22 13:05 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/23/22 05:57	06/23/22 16:02	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/23/22 05:57	06/23/22 16:02	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/23/22 05:57	06/23/22 16:02	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	06/29/22 10:00	06/30/22 09:14	7439-97-6	
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		06/21/22 13:57	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 13:57	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/21/22 13:57	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/21/22 13:57	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 13:57	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/21/22 13:57	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/21/22 13:57	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/21/22 13:57	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/21/22 13:57	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/22 13:57	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/21/22 13:57	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/21/22 13:57	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/21/22 13:57	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 13:57	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/21/22 13:57	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/21/22 13:57	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:57	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 13:57	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/21/22 13:57	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/21/22 13:57	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/21/22 13:57	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 13:57	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 13:57	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/21/22 13:57	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/22 13:57	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 13:57	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/21/22 13:57	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/21/22 13:57	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/21/22 13:57	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 13:57	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/21/22 13:57	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/21/22 13:57	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/21/22 13:57	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/21/22 13:57	124-48-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Sample: MW19 **Lab ID: 40246743003** Collected: 06/16/22 13:05 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/21/22 13:57	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/21/22 13:57	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 13:57	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 13:57	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/21/22 13:57	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/21/22 13:57	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 13:57	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/21/22 13:57	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/21/22 13:57	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:57	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/21/22 13:57	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/21/22 13:57	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/21/22 13:57	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 13:57	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 13:57	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/21/22 13:57	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/21/22 13:57	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/21/22 13:57	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 13:57	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 13:57	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/21/22 13:57	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/21/22 13:57	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/22 13:57	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/21/22 13:57	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/21/22 13:57	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/21/22 13:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/21/22 13:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		06/21/22 13:57	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/21/22 13:57	2037-26-5	

Sample: PZ-13 **Lab ID: 40246743004** Collected: 06/16/22 14:10 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/23/22 05:57	06/23/22 16:05	7440-38-2	
Barium, Dissolved	22.4	ug/L	5.0	1.5	1	06/23/22 05:57	06/23/22 16:05	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/23/22 05:57	06/23/22 16:05	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/23/22 05:57	06/23/22 16:05	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/23/22 05:57	06/23/22 16:05	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/23/22 05:57	06/23/22 16:05	7782-49-2	

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

Sample: PZ-13 **Lab ID: 40246743004** Collected: 06/16/22 14:10 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/23/22 05:57	06/23/22 16:05	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	06/29/22 10:00	06/30/22 09:16	7439-97-6	
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		06/21/22 14:17	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 14:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/21/22 14:17	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/21/22 14:17	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 14:17	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/21/22 14:17	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/21/22 14:17	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/21/22 14:17	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/21/22 14:17	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/22 14:17	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/21/22 14:17	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/21/22 14:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/21/22 14:17	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 14:17	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/21/22 14:17	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/21/22 14:17	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 14:17	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 14:17	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/21/22 14:17	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/21/22 14:17	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/21/22 14:17	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 14:17	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 14:17	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/21/22 14:17	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 14:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/22 14:17	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 14:17	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/21/22 14:17	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/21/22 14:17	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/21/22 14:17	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 14:17	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/21/22 14:17	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/21/22 14:17	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/21/22 14:17	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/21/22 14:17	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/21/22 14:17	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/21/22 14:17	75-71-8	

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

Sample: PZ-13 **Lab ID: 40246743004** Collected: 06/16/22 14:10 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 14:17	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 14:17	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/21/22 14:17	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/21/22 14:17	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 14:17	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/21/22 14:17	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/21/22 14:17	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/21/22 14:17	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/21/22 14:17	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/21/22 14:17	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/21/22 14:17	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 14:17	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 14:17	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/21/22 14:17	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/21/22 14:17	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/21/22 14:17	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 14:17	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 14:17	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/21/22 14:17	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/21/22 14:17	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/22 14:17	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/21/22 14:17	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/21/22 14:17	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/21/22 14:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/21/22 14:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		06/21/22 14:17	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		06/21/22 14:17	2037-26-5	

Sample: TRIP BLANK **Lab ID: 40246743005** Collected: 06/16/22 17:15 Received: 06/17/22 08:45 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		06/21/22 12:00	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 12:00	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/21/22 12:00	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/21/22 12:00	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/21/22 12:00	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/21/22 12:00	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/21/22 12:00	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/21/22 12:00	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Sample: TRIP BLANK **Lab ID: 40246743005** Collected: 06/16/22 17:15 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/21/22 12:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/22 12:00	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/21/22 12:00	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/21/22 12:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/21/22 12:00	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 12:00	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/21/22 12:00	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/21/22 12:00	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:00	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 12:00	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/21/22 12:00	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/21/22 12:00	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/21/22 12:00	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 12:00	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/21/22 12:00	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/21/22 12:00	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/22 12:00	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 12:00	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/21/22 12:00	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/21/22 12:00	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/21/22 12:00	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 12:00	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/21/22 12:00	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/21/22 12:00	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/21/22 12:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/21/22 12:00	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/21/22 12:00	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/21/22 12:00	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 12:00	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/21/22 12:00	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/21/22 12:00	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/21/22 12:00	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/21/22 12:00	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/21/22 12:00	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/21/22 12:00	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:00	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/21/22 12:00	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/21/22 12:00	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/21/22 12:00	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/21/22 12:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/22 12:00	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/21/22 12:00	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/21/22 12:00	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/21/22 12:00	179601-23-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Sample: TRIP BLANK **Lab ID: 40246743005** Collected: 06/16/22 17:15 Received: 06/17/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/21/22 12:00	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/21/22 12:00	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/21/22 12:00	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/21/22 12:00	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/22 12:00	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/21/22 12:00	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/21/22 12:00	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/21/22 12:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/21/22 12:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		06/21/22 12:00	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/21/22 12:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

QC Batch: 419674	Analysis Method: EPA 7470
QC Batch Method: EPA 7470	Analysis Description: 7470 Mercury Dissolved
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246743001, 40246743002, 40246743003, 40246743004

METHOD BLANK: 2416826 Matrix: Water
Associated Lab Samples: 40246743001, 40246743002, 40246743003, 40246743004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.066	0.20	06/30/22 08:48	

LABORATORY CONTROL SAMPLE: 2416827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2416828 2416829

Parameter	Units	2416828		2416829		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury, Dissolved	ug/L	<0.066	5	5	4.9	4.7	97	94	85-115	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

QC Batch: 419169 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET Dissolved
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246743001, 40246743002, 40246743003, 40246743004

METHOD BLANK: 2413835 Matrix: Water
Associated Lab Samples: 40246743001, 40246743002, 40246743003, 40246743004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<8.3	25.0	06/23/22 15:44	
Barium, Dissolved	ug/L	<1.5	5.0	06/23/22 15:44	
Cadmium, Dissolved	ug/L	<1.3	5.0	06/23/22 15:44	
Chromium, Dissolved	ug/L	<2.5	10.0	06/23/22 15:44	
Lead, Dissolved	ug/L	<5.9	20.0	06/23/22 15:44	
Selenium, Dissolved	ug/L	<12.2	40.0	06/23/22 15:44	
Silver, Dissolved	ug/L	<3.2	10.0	06/23/22 15:44	

LABORATORY CONTROL SAMPLE: 2413836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	250	239	96	80-120	
Barium, Dissolved	ug/L	250	255	102	80-120	
Cadmium, Dissolved	ug/L	250	249	99	80-120	
Chromium, Dissolved	ug/L	250	255	102	80-120	
Lead, Dissolved	ug/L	250	258	103	80-120	
Selenium, Dissolved	ug/L	250	256	102	80-120	
Silver, Dissolved	ug/L	125	130	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413837 2413838

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246743001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic, Dissolved	ug/L	<8.3	250	250	243	243	96	96	75-125	0	20
Barium, Dissolved	ug/L	124	250	250	370	382	99	103	75-125	3	20
Cadmium, Dissolved	ug/L	<1.3	250	250	248	256	99	102	75-125	3	20
Chromium, Dissolved	ug/L	<2.5	250	250	250	258	100	103	75-125	3	20
Lead, Dissolved	ug/L	<5.9	250	250	254	266	101	105	75-125	5	20
Selenium, Dissolved	ug/L	<12.2	250	250	248	258	99	103	75-125	4	20
Silver, Dissolved	ug/L	<3.2	125	125	128	133	101	104	75-125	3	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

QC Batch: 418738 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246743001, 40246743002, 40246743003, 40246743004, 40246743005

METHOD BLANK: 2411724 Matrix: Water
Associated Lab Samples: 40246743001, 40246743002, 40246743003, 40246743004, 40246743005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	06/21/22 07:58	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	06/21/22 07:58	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	06/21/22 07:58	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	06/21/22 07:58	
1,1-Dichloroethane	ug/L	<0.30	1.0	06/21/22 07:58	
1,1-Dichloroethene	ug/L	<0.58	1.0	06/21/22 07:58	
1,1-Dichloropropene	ug/L	<0.41	1.0	06/21/22 07:58	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	06/21/22 07:58	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	06/21/22 07:58	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/21/22 07:58	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	06/21/22 07:58	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	06/21/22 07:58	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	06/21/22 07:58	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	06/21/22 07:58	
1,2-Dichloroethane	ug/L	<0.29	1.0	06/21/22 07:58	
1,2-Dichloropropane	ug/L	<0.45	1.0	06/21/22 07:58	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	06/21/22 07:58	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	06/21/22 07:58	
1,3-Dichloropropane	ug/L	<0.30	1.0	06/21/22 07:58	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	06/21/22 07:58	
2,2-Dichloropropane	ug/L	<4.2	5.0	06/21/22 07:58	
2-Chlorotoluene	ug/L	<0.89	5.0	06/21/22 07:58	
4-Chlorotoluene	ug/L	<0.89	5.0	06/21/22 07:58	
Benzene	ug/L	<0.30	1.0	06/21/22 07:58	
Bromobenzene	ug/L	<0.36	1.0	06/21/22 07:58	
Bromochloromethane	ug/L	<0.36	5.0	06/21/22 07:58	
Bromodichloromethane	ug/L	<0.42	1.0	06/21/22 07:58	
Bromoform	ug/L	<3.8	5.0	06/21/22 07:58	
Bromomethane	ug/L	<1.2	5.0	06/21/22 07:58	
Carbon tetrachloride	ug/L	<0.37	1.0	06/21/22 07:58	
Chlorobenzene	ug/L	<0.86	1.0	06/21/22 07:58	
Chloroethane	ug/L	<1.4	5.0	06/21/22 07:58	
Chloroform	ug/L	<1.2	5.0	06/21/22 07:58	
Chloromethane	ug/L	<1.6	5.0	06/21/22 07:58	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	06/21/22 07:58	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	06/21/22 07:58	
Dibromochloromethane	ug/L	<2.6	5.0	06/21/22 07:58	
Dibromomethane	ug/L	<0.99	5.0	06/21/22 07:58	
Dichlorodifluoromethane	ug/L	<0.46	5.0	06/21/22 07:58	
Diisopropyl ether	ug/L	<1.1	5.0	06/21/22 07:58	

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QUALITY CONTROL DATA

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

METHOD BLANK: 2411724

Matrix: Water

Associated Lab Samples: 40246743001, 40246743002, 40246743003, 40246743004, 40246743005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/21/22 07:58	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/21/22 07:58	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/21/22 07:58	
m&p-Xylene	ug/L	<0.70	2.0	06/21/22 07:58	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/21/22 07:58	
Methylene Chloride	ug/L	<0.32	5.0	06/21/22 07:58	
n-Butylbenzene	ug/L	<0.86	1.0	06/21/22 07:58	
n-Propylbenzene	ug/L	<0.35	1.0	06/21/22 07:58	
Naphthalene	ug/L	<1.1	5.0	06/21/22 07:58	
o-Xylene	ug/L	<0.35	1.0	06/21/22 07:58	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/21/22 07:58	
sec-Butylbenzene	ug/L	<0.42	1.0	06/21/22 07:58	
Styrene	ug/L	<0.36	1.0	06/21/22 07:58	
tert-Butylbenzene	ug/L	<0.59	1.0	06/21/22 07:58	
Tetrachloroethene	ug/L	<0.41	1.0	06/21/22 07:58	
Toluene	ug/L	<0.29	1.0	06/21/22 07:58	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/21/22 07:58	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/21/22 07:58	
Trichloroethene	ug/L	<0.32	1.0	06/21/22 07:58	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/21/22 07:58	
Vinyl chloride	ug/L	<0.17	1.0	06/21/22 07:58	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130	06/21/22 07:58	
4-Bromofluorobenzene (S)	%	99	70-130	06/21/22 07:58	
Toluene-d8 (S)	%	101	70-130	06/21/22 07:58	

LABORATORY CONTROL SAMPLE: 2411725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.9	116	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	69-130	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	48.9	98	70-130	
1,1-Dichloroethene	ug/L	50	50.9	102	74-131	
1,2,4-Trichlorobenzene	ug/L	50	49.2	98	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.6	91	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	50.8	102	70-137	
1,2-Dichloropropane	ug/L	50	45.3	91	80-121	
1,3-Dichlorobenzene	ug/L	50	53.6	107	70-130	
1,4-Dichlorobenzene	ug/L	50	50.7	101	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Bromodichloromethane	ug/L	50	50.3	101	70-130	
Bromoform	ug/L	50	55.3	111	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

LABORATORY CONTROL SAMPLE: 2411725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	32.7	65	21-147	
Carbon tetrachloride	ug/L	50	59.9	120	80-146	
Chlorobenzene	ug/L	50	52.4	105	70-130	
Chloroethane	ug/L	50	41.0	82	52-165	
Chloroform	ug/L	50	53.9	108	80-123	
Chloromethane	ug/L	50	32.5	65	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.6	97	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.1	102	70-130	
Dibromochloromethane	ug/L	50	53.8	108	70-130	
Dichlorodifluoromethane	ug/L	50	23.6	47	25-121	
Ethylbenzene	ug/L	50	52.4	105	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.1	106	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	52.2	104	70-130	
Methylene Chloride	ug/L	50	51.3	103	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	55.0	110	70-130	
Toluene	ug/L	50	49.9	100	80-120	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.4	101	70-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
Trichlorofluoromethane	ug/L	50	52.5	105	65-160	
Vinyl chloride	ug/L	50	36.1	72	63-134	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412553 2412554

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40246723002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.30	50	50	55.9	57.7	112	115	70-134	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	46.2	48.3	92	97	61-135	5	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	46.5	49.9	93	100	70-130	7	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	47.5	49.6	95	99	70-130	4	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	49.0	50.9	98	102	71-130	4	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.3	50.1	95	100	68-131	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	44.2	48.0	88	96	51-141	8	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	46.4	50.1	93	100	70-130	8	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	47.8	51.6	96	103	70-130	8	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	50.0	52.3	100	105	70-137	4	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	44.1	46.8	88	94	80-121	6	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50.5	54.4	101	109	70-130	7	20	

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QUALITY CONTROL DATA

Project: 1162-013 1324 S. 26TH ST.
Pace Project No.: 40246743

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412553		2412554		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40246723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dichlorobenzene	ug/L	<0.89	50	50	48.7	52.6	97	105	70-130	8	20		
Benzene	ug/L	<0.30	50	50	46.6	48.6	93	97	70-130	4	20		
Bromodichloromethane	ug/L	<0.42	50	50	49.3	51.5	99	103	70-130	4	20		
Bromoform	ug/L	<3.8	50	50	51.4	55.7	103	111	70-133	8	20		
Bromomethane	ug/L	<1.2	50	50	35.3	39.3	71	79	21-149	11	22		
Carbon tetrachloride	ug/L	<0.37	50	50	57.5	59.3	115	119	80-146	3	20		
Chlorobenzene	ug/L	<0.86	50	50	49.2	53.2	98	106	70-130	8	20		
Chloroethane	ug/L	<1.4	50	50	41.2	41.1	82	82	52-165	0	20		
Chloroform	ug/L	<1.2	50	50	53.0	55.2	106	110	80-123	4	20		
Chloromethane	ug/L	<1.6	50	50	31.3	32.1	63	64	42-125	2	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.9	50.3	96	101	70-130	5	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	49.6	51.8	99	104	70-130	4	20		
Dibromochloromethane	ug/L	<2.6	50	50	51.1	53.9	102	108	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	21.7	22.8	43	46	25-121	5	20		
Ethylbenzene	ug/L	<0.33	50	50	49.3	52.2	99	104	80-121	6	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.2	53.1	100	106	70-130	6	20		
m&p-Xylene	ug/L	<0.70	100	100	97.0	103	97	103	70-130	6	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50.4	53.5	101	107	70-130	6	20		
Methylene Chloride	ug/L	<0.32	50	50	50.2	52.6	100	105	70-130	5	20		
o-Xylene	ug/L	<0.35	50	50	49.0	51.8	98	104	70-130	6	20		
Styrene	ug/L	<0.36	50	50	47.7	52.0	95	104	70-132	9	20		
Tetrachloroethene	ug/L	<0.41	50	50	52.6	54.8	105	110	70-130	4	20		
Toluene	ug/L	<0.29	50	50	47.6	50.3	95	101	80-120	5	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	52.9	55.4	106	111	70-130	5	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	48.1	51.7	96	103	70-130	7	20		
Trichloroethene	ug/L	<0.32	50	50	50.2	52.8	100	106	70-130	5	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	50.0	52.0	100	104	65-160	4	20		
Vinyl chloride	ug/L	<0.17	50	50	34.6	36.0	69	72	60-137	4	20		
1,2-Dichlorobenzene-d4 (S)	%						99	100	70-130				
4-Bromofluorobenzene (S)	%						99	98	70-130				
Toluene-d8 (S)	%						99	101	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1162-013 1324 S. 26TH ST.

Pace Project No.: 40246743

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246743001	MW5	EPA 3010A	419169	EPA 6010D	419248
40246743002	PZ-3	EPA 3010A	419169	EPA 6010D	419248
40246743003	MW19	EPA 3010A	419169	EPA 6010D	419248
40246743004	PZ-13	EPA 3010A	419169	EPA 6010D	419248
40246743001	MW5	EPA 7470	419674	EPA 7470	419721
40246743002	PZ-3	EPA 7470	419674	EPA 7470	419721
40246743003	MW19	EPA 7470	419674	EPA 7470	419721
40246743004	PZ-13	EPA 7470	419674	EPA 7470	419721
40246743001	MW5	EPA 8260	418738		
40246743002	PZ-3	EPA 8260	418738		
40246743003	MW19	EPA 8260	418738		
40246743004	PZ-13	EPA 8260	418738		
40246743005	TRIP BLANK	EPA 8260	418738		

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Sample Condition Upon Receipt Form (SCUR)

Client Name: REL
 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: **WO#: 40246743**

 40246743

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 - 110 Type of Ice: Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 1 /Corr: 1

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

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

Person examining contents:
 Date: 10/17/22 Initials: JP
 Labeled By Initials: mit

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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>483</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 login
 Page 2 of 2

August 04, 2022

Nicole Laplant
ROBERT E. LEE & ASSOCIATES, IN
1250 Centennial Centre Blvd
Oneida, WI 54155

RE: Project: 1162-013
Pace Project No.: 40246647

Dear Nicole Laplant:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2022. 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,



Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Cody Applekamp, Robert E Lee & Associates, Inc.
Alan Gustafson, Robert E. Lee & Associates
Bruce Meissner, Robert E. Lee & Associates, Inc
Lori Rogers, Robert E Lee



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1162-013

Pace Project No.: 40246647

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: 1162-013

Pace Project No.: 40246647

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246647001	MW7	Water	06/14/22 11:15	06/16/22 08:45
40246647002	MW6	Water	06/14/22 12:55	06/16/22 08:45
40246647003	SUMP 1	Water	06/14/22 14:30	06/16/22 08:45
40246647004	MW4	Water	06/14/22 16:00	06/16/22 08:45
40246647005	PZ-4	Water	06/14/22 17:00	06/16/22 08:45
40246647006	PFAS BLANK	Water	06/14/22 18:00	06/16/22 08:45
40246647007	MW-17	Water	06/15/22 10:40	06/16/22 08:45
40246647008	PZ-16	Water	06/15/22 11:45	06/16/22 08:45
40246647009	MW18	Water	06/15/22 12:55	06/16/22 08:45
40246647010	TW26	Water	06/15/22 16:25	06/16/22 08:45
40246647011	TW27	Water	06/15/22 15:20	06/16/22 08:45
40246647012	TW28	Water	06/15/22 14:45	06/16/22 08:45

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SAMPLE ANALYTE COUNT

Project: 1162-013
Pace Project No.: 40246647

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40246647001	MW7	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647002	MW6	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647003	SUMP 1	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647004	MW4	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647005	PZ-4	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647007	MW-17	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647008	PZ-16	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647009	MW18	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647010	TW26	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647011	TW27	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G
40246647012	TW28	EPA 6010D	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8260	EIB	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1162-013
Pace Project No.: 40246647

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40246647001	MW7					
EPA 6010D	Barium, Dissolved	250	ug/L	5.0	06/21/22 10:47	
EPA 8260	Dichlorodifluoromethane	3.1J	ug/L	5.0	06/23/22 13:49	
EPA 8260	Trichloroethene	0.83J	ug/L	1.0	06/23/22 13:49	
40246647002	MW6					
EPA 6010D	Barium, Dissolved	171	ug/L	5.0	06/21/22 10:56	
40246647003	SUMP 1					
EPA 6010D	Barium, Dissolved	36.5	ug/L	5.0	06/21/22 11:01	
EPA 6010D	Cadmium, Dissolved	16.3	ug/L	5.0	06/21/22 11:01	
EPA 6010D	Chromium, Dissolved	186	ug/L	10.0	06/21/22 11:01	
EPA 8260	Trichloroethene	23.9	ug/L	1.0	06/23/22 16:33	
EPA 8260	Vinyl chloride	2.5	ug/L	1.0	06/23/22 16:33	
EPA 8260	cis-1,2-Dichloroethene	26.2	ug/L	1.0	06/23/22 16:33	
EPA 8260	trans-1,2-Dichloroethene	0.88J	ug/L	1.0	06/23/22 16:33	
40246647004	MW4					
EPA 6010D	Barium, Dissolved	59.1	ug/L	5.0	06/21/22 11:04	
40246647005	PZ-4					
EPA 6010D	Barium, Dissolved	23.2	ug/L	5.0	06/21/22 11:11	
40246647007	MW-17					
EPA 6010D	Barium, Dissolved	70.0	ug/L	5.0	06/21/22 11:13	
40246647008	PZ-16					
EPA 6010D	Barium, Dissolved	47.8	ug/L	5.0	06/21/22 11:16	
40246647009	MW18					
EPA 6010D	Barium, Dissolved	59.3	ug/L	5.0	06/21/22 11:18	
EPA 8260	Dichlorodifluoromethane	0.51J	ug/L	5.0	06/23/22 14:10	
40246647010	TW26					
EPA 6010D	Barium, Dissolved	187	ug/L	25.0	06/21/22 11:20	
EPA 8260	1,1-Dichloroethane	1.8	ug/L	1.0	06/23/22 15:31	
EPA 8260	1,1-Dichloroethene	13.5	ug/L	1.0	06/23/22 15:31	
EPA 8260	Dichlorodifluoromethane	121	ug/L	5.0	06/23/22 15:31	
EPA 8260	Trichloroethene	27.1	ug/L	1.0	06/23/22 15:31	
EPA 8260	Vinyl chloride	47.0	ug/L	1.0	06/23/22 15:31	
EPA 8260	cis-1,2-Dichloroethene	52.6	ug/L	1.0	06/23/22 15:31	
EPA 8260	trans-1,2-Dichloroethene	2.0	ug/L	1.0	06/23/22 15:31	
40246647011	TW27					
EPA 6010D	Barium, Dissolved	918	ug/L	5.0	06/21/22 11:23	
EPA 8260	Vinyl chloride	0.27J	ug/L	1.0	06/23/22 15:52	1q
40246647012	TW28					
EPA 6010D	Barium, Dissolved	60.2	ug/L	5.0	06/21/22 11:25	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW7 **Lab ID: 40246647001** Collected: 06/14/22 11:15 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 10:47	7440-38-2	
Barium, Dissolved	250	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 10:47	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 10:47	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 10:47	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 10:47	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 10:47	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 10:47	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:39	7439-97-6	
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		06/23/22 13:49	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 13:49	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/23/22 13:49	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/23/22 13:49	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 13:49	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/23/22 13:49	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/23/22 13:49	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/23/22 13:49	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/23/22 13:49	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/23/22 13:49	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/23/22 13:49	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/23/22 13:49	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/23/22 13:49	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 13:49	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/23/22 13:49	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/23/22 13:49	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 13:49	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 13:49	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/23/22 13:49	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/23/22 13:49	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/23/22 13:49	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 13:49	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 13:49	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/23/22 13:49	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 13:49	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/23/22 13:49	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 13:49	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/23/22 13:49	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/23/22 13:49	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/23/22 13:49	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 13:49	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW7 **Lab ID: 40246647001** Collected: 06/14/22 11:15 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/23/22 13:49	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/23/22 13:49	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/23/22 13:49	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/23/22 13:49	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/23/22 13:49	74-95-3	
Dichlorodifluoromethane	3.1J	ug/L	5.0	0.46	1		06/23/22 13:49	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 13:49	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 13:49	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/23/22 13:49	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/23/22 13:49	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 13:49	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/23/22 13:49	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/23/22 13:49	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/23/22 13:49	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/23/22 13:49	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/23/22 13:49	108-88-3	
Trichloroethene	0.83J	ug/L	1.0	0.32	1		06/23/22 13:49	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 13:49	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/23/22 13:49	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/23/22 13:49	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/23/22 13:49	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/23/22 13:49	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 13:49	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 13:49	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/23/22 13:49	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/23/22 13:49	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/23/22 13:49	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/23/22 13:49	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/23/22 13:49	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/23/22 13:49	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/23/22 13:49	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		06/23/22 13:49	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		06/23/22 13:49	2037-26-5	

Sample: MW6 **Lab ID: 40246647002** Collected: 06/14/22 12:55 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 10:56	7440-38-2	
Barium, Dissolved	171	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 10:56	7440-39-3	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW6 **Lab ID: 40246647002** Collected: 06/14/22 12:55 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 10:56	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 10:56	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 10:56	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 10:56	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 10:56	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:41	7439-97-6	
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		06/20/22 15:14	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:14	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/20/22 15:14	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/20/22 15:14	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:14	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/20/22 15:14	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/20/22 15:14	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/20/22 15:14	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/20/22 15:14	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/22 15:14	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/20/22 15:14	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/20/22 15:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/20/22 15:14	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 15:14	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/20/22 15:14	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/20/22 15:14	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:14	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:14	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:14	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/20/22 15:14	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/20/22 15:14	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 15:14	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 15:14	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/20/22 15:14	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/22 15:14	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 15:14	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/20/22 15:14	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/20/22 15:14	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/20/22 15:14	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 15:14	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/20/22 15:14	75-00-3	R1
Chloroform	<1.2	ug/L	5.0	1.2	1		06/20/22 15:14	67-66-3	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW6 **Lab ID: 40246647002** Collected: 06/14/22 12:55 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/20/22 15:14	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/20/22 15:14	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/20/22 15:14	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/20/22 15:14	75-71-8	L1
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 15:14	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 15:14	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/20/22 15:14	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/20/22 15:14	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 15:14	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/20/22 15:14	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/20/22 15:14	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:14	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/20/22 15:14	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/20/22 15:14	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/20/22 15:14	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 15:14	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/22 15:14	75-01-4	L1
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/20/22 15:14	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:14	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/20/22 15:14	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 15:14	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:14	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:14	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/20/22 15:14	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/20/22 15:14	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/20/22 15:14	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/20/22 15:14	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/20/22 15:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		06/20/22 15:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		06/20/22 15:14	2199-69-1	
Toluene-d8 (S)	101	%	70-130		1		06/20/22 15:14	2037-26-5	

Sample: SUMP 1 **Lab ID: 40246647003** Collected: 06/14/22 14:30 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:01	7440-38-2	
Barium, Dissolved	36.5	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:01	7440-39-3	
Cadmium, Dissolved	16.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:01	7440-43-9	
Chromium, Dissolved	186	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:01	7440-47-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: SUMP 1 **Lab ID: 40246647003** Collected: 06/14/22 14:30 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:01	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:01	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:01	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:43	7439-97-6	
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		06/23/22 16:33	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 16:33	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/23/22 16:33	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/23/22 16:33	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 16:33	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/23/22 16:33	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/23/22 16:33	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/23/22 16:33	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/23/22 16:33	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/23/22 16:33	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/23/22 16:33	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/23/22 16:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/23/22 16:33	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 16:33	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/23/22 16:33	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/23/22 16:33	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:33	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 16:33	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/23/22 16:33	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/23/22 16:33	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/23/22 16:33	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 16:33	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 16:33	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/23/22 16:33	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:33	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/23/22 16:33	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 16:33	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/23/22 16:33	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/23/22 16:33	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/23/22 16:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 16:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/23/22 16:33	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/23/22 16:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/23/22 16:33	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/23/22 16:33	124-48-1	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: SUMP 1 **Lab ID: 40246647003** Collected: 06/14/22 14:30 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/23/22 16:33	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/23/22 16:33	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 16:33	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 16:33	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/23/22 16:33	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/23/22 16:33	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 16:33	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/23/22 16:33	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/23/22 16:33	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:33	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/23/22 16:33	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/23/22 16:33	108-88-3	
Trichloroethene	23.9	ug/L	1.0	0.32	1		06/23/22 16:33	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 16:33	75-69-4	
Vinyl chloride	2.5	ug/L	1.0	0.17	1		06/23/22 16:33	75-01-4	
cis-1,2-Dichloroethene	26.2	ug/L	1.0	0.47	1		06/23/22 16:33	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:33	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/23/22 16:33	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 16:33	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 16:33	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/23/22 16:33	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/23/22 16:33	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/23/22 16:33	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/23/22 16:33	98-06-6	
trans-1,2-Dichloroethene	0.88J	ug/L	1.0	0.53	1		06/23/22 16:33	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/23/22 16:33	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/23/22 16:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		06/23/22 16:33	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		06/23/22 16:33	2037-26-5	

Sample: MW4 **Lab ID: 40246647004** Collected: 06/14/22 16:00 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:04	7440-38-2	
Barium, Dissolved	59.1	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:04	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:04	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:04	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:04	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:04	7782-49-2	

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ANALYTICAL RESULTS

Project: 1162-013

Pace Project No.: 40246647

Sample: MW4 Lab ID: 40246647004 Collected: 06/14/22 16:00 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Green Bay									
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:04	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:46	7439-97-6	
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		06/20/22 15:34	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:34	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/20/22 15:34	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/20/22 15:34	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:34	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/20/22 15:34	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/20/22 15:34	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/20/22 15:34	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/20/22 15:34	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/22 15:34	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/20/22 15:34	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/20/22 15:34	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/20/22 15:34	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 15:34	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/20/22 15:34	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/20/22 15:34	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:34	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:34	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:34	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/20/22 15:34	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/20/22 15:34	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 15:34	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 15:34	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/20/22 15:34	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/22 15:34	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 15:34	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/20/22 15:34	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/20/22 15:34	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/20/22 15:34	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 15:34	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/20/22 15:34	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/20/22 15:34	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/20/22 15:34	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/20/22 15:34	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/20/22 15:34	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/20/22 15:34	75-71-8	L1

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW4 **Lab ID: 40246647004** Collected: 06/14/22 16:00 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 15:34	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 15:34	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/20/22 15:34	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/20/22 15:34	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 15:34	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/20/22 15:34	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/20/22 15:34	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:34	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/20/22 15:34	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/20/22 15:34	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/20/22 15:34	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 15:34	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/22 15:34	75-01-4	L1
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/20/22 15:34	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:34	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/20/22 15:34	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 15:34	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:34	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:34	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/20/22 15:34	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/20/22 15:34	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/20/22 15:34	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/20/22 15:34	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/20/22 15:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		06/20/22 15:34	460-00-4	
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		06/20/22 15:34	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		06/20/22 15:34	2037-26-5	

Sample: PZ-4 **Lab ID: 40246647005** Collected: 06/14/22 17:00 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:11	7440-38-2	
Barium, Dissolved	23.2	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:11	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:11	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:11	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:11	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:11	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:11	7440-22-4	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: **PZ-4** Lab ID: **40246647005** Collected: 06/14/22 17:00 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:48	7439-97-6	
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		06/20/22 15:54	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:54	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/20/22 15:54	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/20/22 15:54	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:54	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/20/22 15:54	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/20/22 15:54	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/20/22 15:54	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/20/22 15:54	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/22 15:54	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/20/22 15:54	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/20/22 15:54	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/20/22 15:54	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 15:54	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/20/22 15:54	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/20/22 15:54	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:54	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:54	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/20/22 15:54	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/20/22 15:54	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/20/22 15:54	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 15:54	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 15:54	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/20/22 15:54	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:54	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/22 15:54	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 15:54	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/20/22 15:54	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/20/22 15:54	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/20/22 15:54	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 15:54	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/20/22 15:54	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/20/22 15:54	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/20/22 15:54	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/20/22 15:54	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/20/22 15:54	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/20/22 15:54	75-71-8	L1
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 15:54	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 15:54	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/20/22 15:54	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/20/22 15:54	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: PZ-4 **Lab ID: 40246647005** Collected: 06/14/22 17:00 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 15:54	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/20/22 15:54	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/20/22 15:54	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:54	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/20/22 15:54	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/20/22 15:54	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/20/22 15:54	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 15:54	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/22 15:54	75-01-4	L1
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/20/22 15:54	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/20/22 15:54	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/20/22 15:54	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 15:54	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:54	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/20/22 15:54	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/20/22 15:54	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/20/22 15:54	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/20/22 15:54	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/20/22 15:54	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/20/22 15:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		06/20/22 15:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		06/20/22 15:54	2199-69-1	
Toluene-d8 (S)	103	%	70-130		1		06/20/22 15:54	2037-26-5	

Sample: MW-17 **Lab ID: 40246647007** Collected: 06/15/22 10:40 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:13	7440-38-2	
Barium, Dissolved	70.0	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:13	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:13	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:13	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:13	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:13	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:13	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:50	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW-17 **Lab ID: 40246647007** Collected: 06/15/22 10:40 Received: 06/16/22 08:45 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		06/20/22 17:44	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 17:44	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/20/22 17:44	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/20/22 17:44	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 17:44	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/20/22 17:44	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/20/22 17:44	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/20/22 17:44	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/20/22 17:44	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/22 17:44	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/20/22 17:44	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/20/22 17:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/20/22 17:44	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 17:44	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/20/22 17:44	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/20/22 17:44	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 17:44	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 17:44	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/20/22 17:44	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/20/22 17:44	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/20/22 17:44	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 17:44	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 17:44	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/20/22 17:44	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 17:44	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/22 17:44	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 17:44	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/20/22 17:44	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/20/22 17:44	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/20/22 17:44	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 17:44	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/20/22 17:44	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/20/22 17:44	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/20/22 17:44	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/20/22 17:44	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/20/22 17:44	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/20/22 17:44	75-71-8	L1
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 17:44	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 17:44	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/20/22 17:44	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/20/22 17:44	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 17:44	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/20/22 17:44	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/20/22 17:44	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/20/22 17:44	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW-17 **Lab ID: 40246647007** Collected: 06/15/22 10:40 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/20/22 17:44	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/20/22 17:44	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/20/22 17:44	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 17:44	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/22 17:44	75-01-4	L1
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/20/22 17:44	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/20/22 17:44	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/20/22 17:44	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 17:44	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 17:44	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/20/22 17:44	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/20/22 17:44	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/20/22 17:44	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/20/22 17:44	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/20/22 17:44	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/20/22 17:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		06/20/22 17:44	460-00-4	
1,2-Dichlorobenzene-d4 (S)	109	%	70-130		1		06/20/22 17:44	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		06/20/22 17:44	2037-26-5	

Sample: PZ-16 **Lab ID: 40246647008** Collected: 06/15/22 11:45 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:16	7440-38-2	
Barium, Dissolved	47.8	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:16	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:16	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:16	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:16	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:16	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:16	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:53	7439-97-6	
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		06/20/22 18:04	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 18:04	71-55-6	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: PZ-16 **Lab ID: 40246647008** Collected: 06/15/22 11:45 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/20/22 18:04	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/20/22 18:04	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/20/22 18:04	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/20/22 18:04	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/20/22 18:04	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/20/22 18:04	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/20/22 18:04	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/22 18:04	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/20/22 18:04	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/20/22 18:04	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/20/22 18:04	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 18:04	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/20/22 18:04	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/20/22 18:04	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 18:04	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 18:04	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/20/22 18:04	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/20/22 18:04	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/20/22 18:04	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 18:04	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/20/22 18:04	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/20/22 18:04	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/20/22 18:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/22 18:04	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 18:04	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/20/22 18:04	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/20/22 18:04	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/20/22 18:04	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 18:04	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/20/22 18:04	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/20/22 18:04	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/20/22 18:04	74-87-3	L1
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/20/22 18:04	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/20/22 18:04	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/20/22 18:04	75-71-8	L1
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 18:04	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/20/22 18:04	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/20/22 18:04	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/20/22 18:04	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/20/22 18:04	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/20/22 18:04	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/20/22 18:04	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/20/22 18:04	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/20/22 18:04	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/20/22 18:04	108-88-3	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: PZ-16 **Lab ID: 40246647008** Collected: 06/15/22 11:45 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/20/22 18:04	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/20/22 18:04	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/22 18:04	75-01-4	L1
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/20/22 18:04	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/20/22 18:04	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/20/22 18:04	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/20/22 18:04	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/20/22 18:04	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/20/22 18:04	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/20/22 18:04	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/20/22 18:04	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/20/22 18:04	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/20/22 18:04	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/20/22 18:04	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		06/20/22 18:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		1		06/20/22 18:04	2199-69-1	
Toluene-d8 (S)	102	%	70-130		1		06/20/22 18:04	2037-26-5	

Sample: MW18 **Lab ID: 40246647009** Collected: 06/15/22 12:55 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:18	7440-38-2	
Barium, Dissolved	59.3	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:18	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:18	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:18	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:18	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:18	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:18	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:55	7439-97-6	
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		06/23/22 14:10	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 14:10	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/23/22 14:10	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/23/22 14:10	79-00-5	

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ANALYTICAL RESULTS

Project: 1162-013

Pace Project No.: 40246647

Sample: MW18 **Lab ID: 40246647009** Collected: 06/15/22 12:55 Received: 06/16/22 08:45 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-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 14:10	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/23/22 14:10	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/23/22 14:10	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/23/22 14:10	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/23/22 14:10	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/23/22 14:10	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/23/22 14:10	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/23/22 14:10	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/23/22 14:10	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 14:10	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/23/22 14:10	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/23/22 14:10	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 14:10	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 14:10	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/23/22 14:10	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/23/22 14:10	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/23/22 14:10	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 14:10	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 14:10	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/23/22 14:10	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 14:10	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/23/22 14:10	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 14:10	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/23/22 14:10	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/23/22 14:10	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/23/22 14:10	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 14:10	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/23/22 14:10	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/23/22 14:10	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/23/22 14:10	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/23/22 14:10	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/23/22 14:10	74-95-3	
Dichlorodifluoromethane	0.51J	ug/L	5.0	0.46	1		06/23/22 14:10	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 14:10	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 14:10	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/23/22 14:10	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/23/22 14:10	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 14:10	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/23/22 14:10	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/23/22 14:10	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/23/22 14:10	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/23/22 14:10	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/23/22 14:10	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/23/22 14:10	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 14:10	75-69-4	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: MW18 **Lab ID: 40246647009** Collected: 06/15/22 12:55 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/23/22 14:10	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/23/22 14:10	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/23/22 14:10	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/23/22 14:10	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 14:10	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 14:10	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/23/22 14:10	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/23/22 14:10	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/23/22 14:10	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/23/22 14:10	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/23/22 14:10	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/23/22 14:10	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/23/22 14:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	111	%	70-130		1		06/23/22 14:10	2199-69-1	
Toluene-d8 (S)	95	%	70-130		1		06/23/22 14:10	2037-26-5	

Sample: TW26 **Lab ID: 40246647010** Collected: 06/15/22 16:25 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<41.7	ug/L	125	41.7	5	06/17/22 05:46	06/21/22 11:20	7440-38-2	D3
Barium, Dissolved	187	ug/L	25.0	7.5	5	06/17/22 05:46	06/21/22 11:20	7440-39-3	
Cadmium, Dissolved	<6.6	ug/L	25.0	6.6	5	06/17/22 05:46	06/21/22 11:20	7440-43-9	D3
Chromium, Dissolved	<12.7	ug/L	50.0	12.7	5	06/17/22 05:46	06/21/22 11:20	7440-47-3	D3
Lead, Dissolved	<29.6	ug/L	100	29.6	5	06/17/22 05:46	06/21/22 11:20	7439-92-1	D3
Selenium, Dissolved	<61.2	ug/L	200	61.2	5	06/17/22 05:46	06/21/22 11:20	7782-49-2	D3
Silver, Dissolved	<16.0	ug/L	50.0	16.0	5	06/17/22 05:46	06/21/22 11:20	7440-22-4	D3
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 08:57	7439-97-6	
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		06/23/22 15:31	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 15:31	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/23/22 15:31	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/23/22 15:31	79-00-5	
1,1-Dichloroethane	1.8	ug/L	1.0	0.30	1		06/23/22 15:31	75-34-3	
1,1-Dichloroethene	13.5	ug/L	1.0	0.58	1		06/23/22 15:31	75-35-4	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: TW26 **Lab ID: 40246647010** Collected: 06/15/22 16:25 Received: 06/16/22 08:45 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-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/23/22 15:31	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/23/22 15:31	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/23/22 15:31	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/23/22 15:31	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/23/22 15:31	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/23/22 15:31	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/23/22 15:31	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 15:31	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/23/22 15:31	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/23/22 15:31	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:31	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 15:31	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/23/22 15:31	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/23/22 15:31	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/23/22 15:31	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 15:31	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 15:31	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/23/22 15:31	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/23/22 15:31	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 15:31	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/23/22 15:31	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/23/22 15:31	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/23/22 15:31	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 15:31	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/23/22 15:31	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/23/22 15:31	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/23/22 15:31	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/23/22 15:31	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/23/22 15:31	74-95-3	
Dichlorodifluoromethane	121	ug/L	5.0	0.46	1		06/23/22 15:31	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 15:31	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 15:31	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/23/22 15:31	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/23/22 15:31	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 15:31	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/23/22 15:31	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/23/22 15:31	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:31	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/23/22 15:31	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/23/22 15:31	108-88-3	
Trichloroethene	27.1	ug/L	1.0	0.32	1		06/23/22 15:31	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 15:31	75-69-4	
Vinyl chloride	47.0	ug/L	1.0	0.17	1		06/23/22 15:31	75-01-4	
cis-1,2-Dichloroethene	52.6	ug/L	1.0	0.47	1		06/23/22 15:31	156-59-2	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: TW26 **Lab ID: 40246647010** Collected: 06/15/22 16:25 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:31	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/23/22 15:31	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 15:31	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 15:31	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/23/22 15:31	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/23/22 15:31	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/23/22 15:31	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/23/22 15:31	98-06-6	
trans-1,2-Dichloroethene	2.0	ug/L	1.0	0.53	1		06/23/22 15:31	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/23/22 15:31	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/23/22 15:31	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		06/23/22 15:31	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		06/23/22 15:31	2037-26-5	

Sample: TW27 **Lab ID: 40246647011** Collected: 06/15/22 15:20 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:23	7440-38-2	
Barium, Dissolved	918	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:23	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:23	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:23	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:23	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:23	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:23	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 09:00	7439-97-6	
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		06/23/22 15:52	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 15:52	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/23/22 15:52	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/23/22 15:52	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 15:52	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/23/22 15:52	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/23/22 15:52	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/23/22 15:52	87-61-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: TW27 Lab ID: 40246647011 Collected: 06/15/22 15:20 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/23/22 15:52	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/23/22 15:52	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/23/22 15:52	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/23/22 15:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/23/22 15:52	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 15:52	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/23/22 15:52	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/23/22 15:52	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:52	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 15:52	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/23/22 15:52	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/23/22 15:52	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/23/22 15:52	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 15:52	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 15:52	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/23/22 15:52	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/23/22 15:52	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 15:52	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/23/22 15:52	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/23/22 15:52	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/23/22 15:52	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 15:52	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/23/22 15:52	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/23/22 15:52	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/23/22 15:52	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/23/22 15:52	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/23/22 15:52	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/23/22 15:52	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 15:52	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 15:52	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/23/22 15:52	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/23/22 15:52	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 15:52	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/23/22 15:52	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/23/22 15:52	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:52	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/23/22 15:52	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/23/22 15:52	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/23/22 15:52	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 15:52	75-69-4	
Vinyl chloride	0.27J	ug/L	1.0	0.17	1		06/23/22 15:52	75-01-4	1q
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/23/22 15:52	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/23/22 15:52	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/23/22 15:52	179601-23-1	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: TW27 **Lab ID: 40246647011** Collected: 06/15/22 15:20 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 15:52	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 15:52	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/23/22 15:52	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/23/22 15:52	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/23/22 15:52	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/23/22 15:52	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/23/22 15:52	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/23/22 15:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/23/22 15:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		06/23/22 15:52	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		06/23/22 15:52	2037-26-5	

Sample: TW28 **Lab ID: 40246647012** Collected: 06/15/22 14:45 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<8.3	ug/L	25.0	8.3	1	06/17/22 05:46	06/21/22 11:25	7440-38-2	
Barium, Dissolved	60.2	ug/L	5.0	1.5	1	06/17/22 05:46	06/21/22 11:25	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	06/17/22 05:46	06/21/22 11:25	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1	06/17/22 05:46	06/21/22 11:25	7440-47-3	
Lead, Dissolved	<5.9	ug/L	20.0	5.9	1	06/17/22 05:46	06/21/22 11:25	7439-92-1	
Selenium, Dissolved	<12.2	ug/L	40.0	12.2	1	06/17/22 05:46	06/21/22 11:25	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1	06/17/22 05:46	06/21/22 11:25	7440-22-4	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	07/05/22 09:55	07/06/22 09:07	7439-97-6	
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		06/23/22 16:12	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 16:12	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		06/23/22 16:12	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		06/23/22 16:12	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		06/23/22 16:12	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		06/23/22 16:12	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		06/23/22 16:12	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		06/23/22 16:12	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		06/23/22 16:12	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/23/22 16:12	120-82-1	

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ANALYTICAL RESULTS

Project: 1162-013
Pace Project No.: 40246647

Sample: TW28 **Lab ID: 40246647012** Collected: 06/15/22 14:45 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		06/23/22 16:12	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		06/23/22 16:12	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		06/23/22 16:12	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 16:12	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		06/23/22 16:12	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		06/23/22 16:12	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:12	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 16:12	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		06/23/22 16:12	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		06/23/22 16:12	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		06/23/22 16:12	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 16:12	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		06/23/22 16:12	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		06/23/22 16:12	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/23/22 16:12	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 16:12	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		06/23/22 16:12	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		06/23/22 16:12	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		06/23/22 16:12	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 16:12	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		06/23/22 16:12	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		06/23/22 16:12	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		06/23/22 16:12	74-87-3	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		06/23/22 16:12	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		06/23/22 16:12	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		06/23/22 16:12	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 16:12	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		06/23/22 16:12	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		06/23/22 16:12	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		06/23/22 16:12	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		06/23/22 16:12	1634-04-4	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		06/23/22 16:12	75-09-2	
Naphthalene	<1.1	ug/L	5.0	1.1	1		06/23/22 16:12	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:12	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		06/23/22 16:12	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		06/23/22 16:12	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		06/23/22 16:12	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		06/23/22 16:12	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/23/22 16:12	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		06/23/22 16:12	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		06/23/22 16:12	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		06/23/22 16:12	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		06/23/22 16:12	104-51-8	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		06/23/22 16:12	103-65-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1162-013

Pace Project No.: 40246647

Sample: TW28 **Lab ID: 40246647012** Collected: 06/15/22 14:45 Received: 06/16/22 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
o-Xylene	<0.35	ug/L	1.0	0.35	1		06/23/22 16:12	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		06/23/22 16:12	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		06/23/22 16:12	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		06/23/22 16:12	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		06/23/22 16:12	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		06/23/22 16:12	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/23/22 16:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	112	%	70-130		1		06/23/22 16:12	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		06/23/22 16:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

QC Batch:	419995	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury Dissolved
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40246647001, 40246647002, 40246647003, 40246647004, 40246647005, 40246647007, 40246647008, 40246647009, 40246647010, 40246647011, 40246647012

METHOD BLANK: 2418932 Matrix: Water
Associated Lab Samples: 40246647001, 40246647002, 40246647003, 40246647004, 40246647005, 40246647007, 40246647008, 40246647009, 40246647010, 40246647011, 40246647012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.066	0.20	07/06/22 08:13	

LABORATORY CONTROL SAMPLE: 2418933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2418934 2418935

Parameter	Units	40246890001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.066	5	5	5.0	4.7	99	95	85-115	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

QC Batch: 418607 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET Dissolved
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246647001, 40246647002, 40246647003, 40246647004, 40246647005, 40246647007, 40246647008, 40246647009, 40246647010, 40246647011, 40246647012

METHOD BLANK: 2410827 Matrix: Water
Associated Lab Samples: 40246647001, 40246647002, 40246647003, 40246647004, 40246647005, 40246647007, 40246647008, 40246647009, 40246647010, 40246647011, 40246647012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<8.3	25.0	06/21/22 10:43	
Barium, Dissolved	ug/L	<1.5	5.0	06/21/22 10:43	
Cadmium, Dissolved	ug/L	<1.3	5.0	06/21/22 10:43	
Chromium, Dissolved	ug/L	<2.5	10.0	06/21/22 10:43	
Lead, Dissolved	ug/L	<5.9	20.0	06/21/22 10:43	
Selenium, Dissolved	ug/L	<12.2	40.0	06/21/22 10:43	
Silver, Dissolved	ug/L	<3.2	10.0	06/21/22 10:43	

LABORATORY CONTROL SAMPLE: 2410828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	250	260	104	80-120	
Barium, Dissolved	ug/L	250	260	104	80-120	
Cadmium, Dissolved	ug/L	250	260	104	80-120	
Chromium, Dissolved	ug/L	250	257	103	80-120	
Lead, Dissolved	ug/L	250	265	106	80-120	
Selenium, Dissolved	ug/L	250	264	106	80-120	
Silver, Dissolved	ug/L	125	125	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2410829 2410830

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246647001 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic, Dissolved	ug/L	<8.3	250	250	258	254	103	101	75-125	2	20		
Barium, Dissolved	ug/L	250	250	250	520	504	108	102	75-125	3	20		
Cadmium, Dissolved	ug/L	<1.3	250	250	268	260	107	104	75-125	3	20		
Chromium, Dissolved	ug/L	<2.5	250	250	254	248	101	99	75-125	2	20		
Lead, Dissolved	ug/L	<5.9	250	250	262	256	105	103	75-125	2	20		
Selenium, Dissolved	ug/L	<12.2	250	250	267	258	107	103	75-125	4	20		
Silver, Dissolved	ug/L	<3.2	125	125	130	127	104	101	75-125	3	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

METHOD BLANK: 2410806

Matrix: Water

Associated Lab Samples: 40246647002, 40246647004, 40246647005, 40246647007, 40246647008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/20/22 10:53	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/20/22 10:53	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/20/22 10:53	
m&p-Xylene	ug/L	<0.70	2.0	06/20/22 10:53	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/20/22 10:53	
Methylene Chloride	ug/L	<0.32	5.0	06/20/22 10:53	
n-Butylbenzene	ug/L	<0.86	1.0	06/20/22 10:53	
n-Propylbenzene	ug/L	<0.35	1.0	06/20/22 10:53	
Naphthalene	ug/L	<1.1	5.0	06/20/22 10:53	
o-Xylene	ug/L	<0.35	1.0	06/20/22 10:53	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/20/22 10:53	
sec-Butylbenzene	ug/L	<0.42	1.0	06/20/22 10:53	
Styrene	ug/L	<0.36	1.0	06/20/22 10:53	
tert-Butylbenzene	ug/L	<0.59	1.0	06/20/22 10:53	
Tetrachloroethene	ug/L	<0.41	1.0	06/20/22 10:53	
Toluene	ug/L	<0.29	1.0	06/20/22 10:53	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/20/22 10:53	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/20/22 10:53	
Trichloroethene	ug/L	<0.32	1.0	06/20/22 10:53	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/20/22 10:53	
Vinyl chloride	ug/L	<0.17	1.0	06/20/22 10:53	
1,2-Dichlorobenzene-d4 (S)	%	110	70-130	06/20/22 10:53	
4-Bromofluorobenzene (S)	%	104	70-130	06/20/22 10:53	
Toluene-d8 (S)	%	102	70-130	06/20/22 10:53	

LABORATORY CONTROL SAMPLE: 2410807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.5	119	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	53.4	107	69-130	
1,1,2-Trichloroethane	ug/L	50	54.0	108	70-130	
1,1-Dichloroethane	ug/L	50	55.0	110	70-130	
1,1-Dichloroethene	ug/L	50	61.9	124	74-131	
1,2,4-Trichlorobenzene	ug/L	50	42.1	84	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.4	95	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	70-130	
1,2-Dichlorobenzene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane	ug/L	50	59.6	119	70-137	
1,2-Dichloropropane	ug/L	50	53.0	106	80-121	
1,3-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,4-Dichlorobenzene	ug/L	50	52.4	105	70-130	
Benzene	ug/L	50	55.2	110	70-130	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	46.6	93	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

LABORATORY CONTROL SAMPLE: 2410807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	55.8	112	21-147	
Carbon tetrachloride	ug/L	50	57.6	115	80-146	
Chlorobenzene	ug/L	50	55.7	111	70-130	
Chloroethane	ug/L	50	70.8	142	52-165	
Chloroform	ug/L	50	57.0	114	80-123	
Chloromethane	ug/L	50	71.4	143	51-122	L1
cis-1,2-Dichloroethene	ug/L	50	46.0	92	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	70-130	
Dibromochloromethane	ug/L	50	53.9	108	70-130	
Dichlorodifluoromethane	ug/L	50	77.7	155	25-121	L1
Ethylbenzene	ug/L	50	59.4	119	80-120	
Isopropylbenzene (Cumene)	ug/L	50	60.4	121	70-130	
m&p-Xylene	ug/L	100	118	118	70-130	
Methyl-tert-butyl ether	ug/L	50	43.9	88	70-130	
Methylene Chloride	ug/L	50	54.7	109	70-130	
o-Xylene	ug/L	50	57.2	114	70-130	
Styrene	ug/L	50	59.3	119	70-130	
Tetrachloroethene	ug/L	50	54.0	108	70-130	
Toluene	ug/L	50	56.7	113	80-120	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	70-130	
trans-1,3-Dichloropropene	ug/L	50	55.7	111	70-130	
Trichloroethene	ug/L	50	53.4	107	70-130	
Trichlorofluoromethane	ug/L	50	63.2	126	65-160	
Vinyl chloride	ug/L	50	68.6	137	63-134	L1
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2411899 2411900

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40246647002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.30	50	50	59.5	58.9	119	118	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	54.0	53.9	108	108	61-135	0	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	52.4	53.7	105	107	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.30	50	50	54.7	53.7	109	107	70-130	2	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	55.7	55.8	111	112	71-130	0	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.8	43.4	86	87	68-131	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	49.5	48.7	99	97	51-141	2	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	53.5	52.3	107	105	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	52.4	52.4	105	105	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	59.7	58.2	119	116	70-137	3	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	52.3	51.7	105	103	80-121	1	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50.8	50.7	102	101	70-130	0	20	

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2411899		2411900		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246647002 Result	MS Spike Conc.	MSD Spike Conc.									
1,4-Dichlorobenzene	ug/L	<0.89	50	50	53.6	53.1	107	106	70-130	1	20		
Benzene	ug/L	<0.30	50	50	54.2	53.3	108	107	70-130	2	20		
Bromodichloromethane	ug/L	<0.42	50	50	55.6	54.4	111	109	70-130	2	20		
Bromoform	ug/L	<3.8	50	50	46.3	46.2	93	92	70-133	0	20		
Bromomethane	ug/L	<1.2	50	50	40.0	41.8	80	84	21-149	5	22		
Carbon tetrachloride	ug/L	<0.37	50	50	56.7	56.0	113	112	80-146	1	20		
Chlorobenzene	ug/L	<0.86	50	50	55.1	53.7	110	107	70-130	3	20		
Chloroethane	ug/L	<1.4	50	50	63.1	78.3	126	157	52-165	21	20	R1	
Chloroform	ug/L	<1.2	50	50	56.3	55.7	113	111	80-123	1	20		
Chloromethane	ug/L	<1.6	50	50	47.6	47.4	95	95	42-125	0	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	47.3	46.5	95	93	70-130	2	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	50.7	49.6	101	99	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	53.8	52.6	108	105	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	33.6	34.6	67	69	25-121	3	20		
Ethylbenzene	ug/L	<0.33	50	50	58.3	56.7	117	113	80-121	3	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	60.1	58.9	120	118	70-130	2	20		
m&p-Xylene	ug/L	<0.70	100	100	115	114	115	114	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	45.3	45.3	91	91	70-130	0	20		
Methylene Chloride	ug/L	<0.32	50	50	53.7	52.3	107	105	70-130	3	20		
o-Xylene	ug/L	<0.35	50	50	56.4	56.5	113	113	70-130	0	20		
Styrene	ug/L	<0.36	50	50	57.2	56.7	114	113	70-132	1	20		
Tetrachloroethene	ug/L	<0.41	50	50	53.5	52.2	107	104	70-130	3	20		
Toluene	ug/L	<0.29	50	50	56.0	55.1	112	110	80-120	2	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	53.0	51.4	106	103	70-130	3	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	54.8	53.7	110	107	70-130	2	20		
Trichloroethene	ug/L	<0.32	50	50	53.8	53.5	108	107	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	55.7	54.4	111	109	65-160	2	20		
Vinyl chloride	ug/L	<0.17	50	50	50.4	50.8	101	102	60-137	1	20		
1,2-Dichlorobenzene-d4 (S)	%						101	106	70-130				
4-Bromofluorobenzene (S)	%						112	116	70-130				
Toluene-d8 (S)	%						102	104	70-130				

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

METHOD BLANK: 2412524

Matrix: Water

Associated Lab Samples: 40246647001, 40246647003, 40246647009, 40246647010, 40246647011, 40246647012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.33	1.0	06/23/22 09:03	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	06/23/22 09:03	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	06/23/22 09:03	
m&p-Xylene	ug/L	<0.70	2.0	06/23/22 09:03	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	06/23/22 09:03	
Methylene Chloride	ug/L	<0.32	5.0	06/23/22 09:03	
n-Butylbenzene	ug/L	<0.86	1.0	06/23/22 09:03	
n-Propylbenzene	ug/L	<0.35	1.0	06/23/22 09:03	
Naphthalene	ug/L	<1.1	5.0	06/23/22 09:03	
o-Xylene	ug/L	<0.35	1.0	06/23/22 09:03	
p-Isopropyltoluene	ug/L	<1.0	5.0	06/23/22 09:03	
sec-Butylbenzene	ug/L	<0.42	1.0	06/23/22 09:03	
Styrene	ug/L	<0.36	1.0	06/23/22 09:03	
tert-Butylbenzene	ug/L	<0.59	1.0	06/23/22 09:03	
Tetrachloroethene	ug/L	<0.41	1.0	06/23/22 09:03	
Toluene	ug/L	<0.29	1.0	06/23/22 09:03	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	06/23/22 09:03	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	06/23/22 09:03	
Trichloroethene	ug/L	<0.32	1.0	06/23/22 09:03	
Trichlorofluoromethane	ug/L	<0.42	1.0	06/23/22 09:03	
Vinyl chloride	ug/L	<0.17	1.0	06/23/22 09:03	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	06/23/22 09:03	
4-Bromofluorobenzene (S)	%	99	70-130	06/23/22 09:03	
Toluene-d8 (S)	%	97	70-130	06/23/22 09:03	

LABORATORY CONTROL SAMPLE: 2412525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.1	112	70-134	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	69-130	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	55.0	110	70-130	
1,1-Dichloroethene	ug/L	50	60.4	121	74-131	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	64-137	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	70-130	
1,2-Dichlorobenzene	ug/L	50	53.5	107	70-130	
1,2-Dichloroethane	ug/L	50	52.5	105	70-137	
1,2-Dichloropropane	ug/L	50	54.5	109	80-121	
1,3-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
Benzene	ug/L	50	54.9	110	70-130	
Bromodichloromethane	ug/L	50	52.3	105	70-130	
Bromoform	ug/L	50	50.6	101	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

LABORATORY CONTROL SAMPLE: 2412525

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	54.4	109	21-147	
Carbon tetrachloride	ug/L	50	58.4	117	80-146	
Chlorobenzene	ug/L	50	52.6	105	70-130	
Chloroethane	ug/L	50	62.2	124	52-165	
Chloroform	ug/L	50	55.2	110	80-123	
Chloromethane	ug/L	50	54.3	109	51-122	
cis-1,2-Dichloroethene	ug/L	50	48.6	97	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.4	95	70-130	
Dibromochloromethane	ug/L	50	49.4	99	70-130	
Dichlorodifluoromethane	ug/L	50	49.0	98	25-121	
Ethylbenzene	ug/L	50	55.6	111	80-120	
Isopropylbenzene (Cumene)	ug/L	50	57.0	114	70-130	
m&p-Xylene	ug/L	100	113	113	70-130	
Methyl-tert-butyl ether	ug/L	50	46.5	93	70-130	
Methylene Chloride	ug/L	50	60.2	120	70-130	
o-Xylene	ug/L	50	54.1	108	70-130	
Styrene	ug/L	50	56.4	113	70-130	
Tetrachloroethene	ug/L	50	53.0	106	70-130	
Toluene	ug/L	50	51.9	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	54.5	109	70-130	
trans-1,3-Dichloropropene	ug/L	50	40.7	81	70-130	
Trichloroethene	ug/L	50	53.2	106	70-130	
Trichlorofluoromethane	ug/L	50	57.1	114	65-160	
Vinyl chloride	ug/L	50	55.1	110	63-134	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413933 2413934

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246850004	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	55.5	55.6	111	111	70-134	0	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	51.4	51.5	103	103	61-135	0	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50.4	49.5	101	99	70-130	2	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	55.6	55.8	111	112	70-130	0	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	60.3	62.6	121	125	71-130	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	53.9	54.1	108	108	68-131	0	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	52.2	53.0	104	106	51-141	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	49.1	48.7	98	97	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	53.8	53.6	108	107	70-130	0	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	52.0	51.9	104	104	70-137	0	20		
1,2-Dichloropropane	ug/L	<0.45	50	50	54.9	54.0	110	108	80-121	2	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	51.3	51.8	103	104	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1162-013
Pace Project No.: 40246647

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2413933		2413934		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40246850004 Result	MS Spike Conc.	MSD Spike Conc.									
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50.7	50.5	101	101	70-130	1	20		
Benzene	ug/L	5.1	50	50	61.2	60.3	112	110	70-130	1	20		
Bromodichloromethane	ug/L	<0.42	50	50	51.8	51.5	104	103	70-130	0	20		
Bromoform	ug/L	<3.8	50	50	50.2	49.0	100	98	70-133	2	20		
Bromomethane	ug/L	<1.2	50	50	58.9	60.5	118	121	21-149	3	22		
Carbon tetrachloride	ug/L	<0.37	50	50	61.1	58.7	122	117	80-146	4	20		
Chlorobenzene	ug/L	<0.86	50	50	54.2	53.6	108	107	70-130	1	20		
Chloroethane	ug/L	<1.4	50	50	62.7	62.0	125	124	52-165	1	20		
Chloroform	ug/L	<1.2	50	50	55.0	54.5	110	109	80-123	1	20		
Chloromethane	ug/L	<1.6	50	50	55.5	52.3	111	105	42-125	6	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	49.6	49.9	99	100	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	49.1	50.0	98	100	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	49.1	48.2	98	96	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	47.2	45.5	94	91	25-121	4	20		
Ethylbenzene	ug/L	0.48J	50	50	56.9	57.4	113	114	80-121	1	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	58.7	58.3	117	117	70-130	1	20		
m&p-Xylene	ug/L	<0.70	100	100	115	113	115	113	70-130	2	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	46.0	47.9	92	96	70-130	4	20		
Methylene Chloride	ug/L	<0.32	50	50	59.7	58.3	119	117	70-130	2	20		
o-Xylene	ug/L	<0.35	50	50	54.9	55.5	110	111	70-130	1	20		
Styrene	ug/L	<0.36	50	50	57.5	56.3	115	113	70-132	2	20		
Tetrachloroethene	ug/L	<0.41	50	50	54.3	54.3	109	109	70-130	0	20		
Toluene	ug/L	<0.29	50	50	52.9	52.6	106	105	80-120	1	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	54.8	54.3	110	109	70-130	1	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	41.6	41.3	83	83	70-130	1	20		
Trichloroethene	ug/L	<0.32	50	50	53.5	53.5	107	107	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	57.8	57.5	116	115	65-160	0	20		
Vinyl chloride	ug/L	<0.17	50	50	57.6	56.8	115	114	60-137	1	20		
1,2-Dichlorobenzene-d4 (S)	%						106	103	70-130				
4-Bromofluorobenzene (S)	%						105	104	70-130				
Toluene-d8 (S)	%						99	99	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1162-013
Pace Project No.: 40246647

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

- | | |
|----|---|
| 1q | Reported value is potentially a result of carryover from previous sample. Insufficient volume for re-analysis from vial without head space. |
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| 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: 1162-013
Pace Project No.: 40246647

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246647001	MW7	EPA 3010A	418607	EPA 6010D	418703
40246647002	MW6	EPA 3010A	418607	EPA 6010D	418703
40246647003	SUMP 1	EPA 3010A	418607	EPA 6010D	418703
40246647004	MW4	EPA 3010A	418607	EPA 6010D	418703
40246647005	PZ-4	EPA 3010A	418607	EPA 6010D	418703
40246647007	MW-17	EPA 3010A	418607	EPA 6010D	418703
40246647008	PZ-16	EPA 3010A	418607	EPA 6010D	418703
40246647009	MW18	EPA 3010A	418607	EPA 6010D	418703
40246647010	TW26	EPA 3010A	418607	EPA 6010D	418703
40246647011	TW27	EPA 3010A	418607	EPA 6010D	418703
40246647012	TW28	EPA 3010A	418607	EPA 6010D	418703
40246647001	MW7	EPA 7470	419995	EPA 7470	420056
40246647002	MW6	EPA 7470	419995	EPA 7470	420056
40246647003	SUMP 1	EPA 7470	419995	EPA 7470	420056
40246647004	MW4	EPA 7470	419995	EPA 7470	420056
40246647005	PZ-4	EPA 7470	419995	EPA 7470	420056
40246647007	MW-17	EPA 7470	419995	EPA 7470	420056
40246647008	PZ-16	EPA 7470	419995	EPA 7470	420056
40246647009	MW18	EPA 7470	419995	EPA 7470	420056
40246647010	TW26	EPA 7470	419995	EPA 7470	420056
40246647011	TW27	EPA 7470	419995	EPA 7470	420056
40246647012	TW28	EPA 7470	419995	EPA 7470	420056
40246647001	MW7	EPA 8260	418962		
40246647002	MW6	EPA 8260	418596		
40246647003	SUMP 1	EPA 8260	418962		
40246647004	MW4	EPA 8260	418596		
40246647005	PZ-4	EPA 8260	418596		
40246647007	MW-17	EPA 8260	418596		
40246647008	PZ-16	EPA 8260	418596		
40246647009	MW18	EPA 8260	418962		
40246647010	TW26	EPA 8260	418962		
40246647011	TW27	EPA 8260	418962		
40246647012	TW28	EPA 8260	418962		

REPORT OF LABORATORY ANALYSIS

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To ensure the proper handling of samples,
 please see the back for instructions.

CHAIN OF CUSTODY RECORD

COC # **203248**

20246647

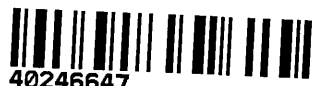
Client:				Analyses Required: (Note special detection limits or methods)										Report to: <i>Nicole Lallant</i>			
Project Name: <i>1324 S. 26th St. - Manitowoc</i>				Filtered ? (Y/N)										Company: Robert E. Lee & Associates			
Project Number: <i>1162-013</i>		BID #:		Preservation *(Code)										Address: 1250 Centennial Centre Blvd. Hobart, WI 54155			
Environmental Program: <input type="checkbox"/> LUST <input type="checkbox"/> SDWA <input type="checkbox"/> WPDES <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER				VOCs RCRA Metals PFAS WI 33 List										Telephone: 920-662-9641			
Requested Turnaround Time <input checked="" type="checkbox"/> Normal (10-15 DAYS) <input type="checkbox"/> Rush		*Preservation Code N = Nitric Acid (red) O = Sodium Hydroxide H = Hydrochloric Acid U = Unpreserved (white) M = Methanol S = Sulfuric Acid (green)												Laboratory Sample I.D.		Remarks:	
Date Needed: _____ <small>Rushes accepted only w/prior notification</small>														Invoice to: <i>Jaci Erdmann</i>			
Sampler: <i>Cody Applekamp / Jonah Oettinger</i>				Sample Type (Matrix) DW = Drinking Water GW = Groundwater WW = Wastewater Soil, Oil, Sludge, Air, Other:										Company: Robert E. Lee & Associates			
Sample Name				Date		Time		No. Of Containers		VOCs		RCRA Metals		PFAS WI 33 List		Address: 1250 Centennial Centre Blvd. Hobart, WI 54155	
MW7				6-14-22		1115		6		X X X				Telephone: 920-662-9641		Laboratory Sample I.D.	
MW6				↓		1255		6		X X X						001	
Sump 1				↓		1430		6		X X X						002	
MW4				↓		1600		6		X X X						003	
P24				↓		1700		6		X X X						004	
PFAS Blank (Field Reagent)				↓		1800		1		X X X						005	
MW17				6-15-22		1040		6		X X X						006	
P216				↓		1145		6		X X X						007	
MW18				↓		1255		6		X X X						008	
TW26				↓		1625		6		X X X						009	
TW27				↓		1520		6		X X X						010	
TW28				↓		1445		6		X X X						011	
TW28				↓		1445		6		X X X						012	
Relinquished By				Date		Time		Received By		Date		Time		Laboratory Receiving Notes			
1) <i>REL</i>				6-16-2022		0824 A/P		<i>Megan M. Pace</i>		06/16/22		0824 A/P		Temperature of Contents <u>3</u> °C			
2) <i>John J. Oelle</i>				6/16/22		0845 A/P		<i>Jusant K. Pace</i>		6/16/22		0845 A/P		Custody Seal Intact _____			
3) _____				_____		_____ A/P		_____		_____		_____ A/P		Sample Condition _____			
Received by Lab _____				_____		_____		_____		_____		_____		Sample pH _____			

Sample Condition Upon Receipt Form (SCUR)

Client Name: REL

Project #:

WO#: 40246647



40246647

Courier: CS Logistics Fed Ex Speedee UPS Walto
 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 - 105 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

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:

Date: 6/16/22 Initials: MP

Labeled By Initials: mt

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC: <u>6/16/22</u>	<input checked="" type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>005 "1710"</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>6/16/22 mp</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Client used White Out on COC 6/16/22 MP

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

This report presents the results from the analyses performed on twelve samples submitted by a representative of Pace Wisconsin. The samples were analyzed for thirty-three perfluorinated compounds using Wisconsin DNR guidance. Reporting limits were set to MDL levels. This report was revised August 1st, 2022 to include the re-extraction results.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. With the exception of EtFOSAm in LCS-99592, and EtFOSAm and MeFOSA in LCSD-99593, the recovery results were within the method limits. With the exception of EtFOSAm and MeFOSA, the RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These analytes were not detected in sample material. Low recoveries indicate a possibility for a false negative for these analytes. A matrix spike was prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

The four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Diminished extracted internal standard (EIS) recovery ("R" flagged) were present in samples and QC, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Several samples have elevated EIS recoveries ("R" flagged) for FTS. While the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard, in the case of the FTS compounds, the recoveries are anomalously high, and are adversely impacted by matrix. The results for these native compounds should be considered estimated.

Several samples and QC have recoveries less than 1% for selected EIS. The results for these native compounds should be considered estimated.

Values were flagged "I" where incorrect isotope ratios were obtained.

Results that were below the calibration range were flagged "J". Results that were above the calibration range were flagged "E".

Report Prepared for:

Brian Basten
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

August 4, 2022

Report Information:

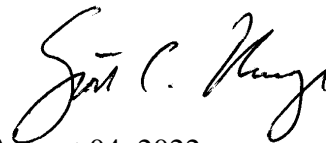
Pace Project #: 10613361
Sample Receipt Date: 06/17/2022
Client Project #: 40246647 Robert E Lee
Client Sub PO #: N/A
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



August 04, 2022

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on twelve samples submitted by a representative of Pace Wisconsin. The samples were analyzed for thirty-three perfluorinated compounds using Wisconsin DNR guidance. Reporting limits were set to MDL levels. This report was revised August 4th, 2022 to include the re-extraction results. Samples were re-extracted out of the method recommended hold time of 28 days upon client approval.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. With the exception of EtFOSAm and MeFOSA in LCSD-99593, the recovery results were within the method limits. With the exception of EtFOSAm and MeFOSA, the RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These analytes were not detected in sample material. Low recoveries indicate a possibility for a false negative for these analytes. A matrix spike was prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

The four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Diminished extracted internal standard (EIS) recovery ("R" flagged) were present in samples and QC, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Several samples have elevated EIS recoveries ("R" flagged) for FTS. While the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard, in the case of the FTS compounds, the recoveries are anomalously high, and are adversely impacted by matrix. The results for these native compounds should be considered estimated.

Several samples and QC have recoveries less than 1% for selected EIS. The results for

DISCUSSION

these native compounds should be considered estimated.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range. The affected values were flagged "D" on the results tables.

Values were flagged "I" where incorrect isotope ratios were obtained.

Results that were below the calibration range were flagged "J".

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
MW7	40246647001	06/17/2022	Water
MW6	40246647002	06/17/2022	Water
SUMP 1	40246647003	06/17/2022	Water
MW4	40246647004	06/17/2022	Water
PZ-4	40246647005	06/17/2022	Water
PFAS BLANK	40246647006	06/17/2022	Water
MW-17	40246647007	06/17/2022	Water
PZ-16	40246647008	06/17/2022	Water
MW18	40246647009	06/17/2022	Water
TW26	40246647010	06/17/2022	Water
TW27	40246647011	06/17/2022	Water
TW28	40246647012	06/17/2022	Water

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name:

Pace Green Bay

Project #:

WO#: 10613361

PM: LAB1 Due Date: 07/02/22 CLIENT: PASI-WI

Courier: Fed Ex, UPS, USPS, Client, Pace, SpeeDee, Commercial

See Exceptions ENV-FRM-MIN4-0142

Tracking Number:

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap, Bubble Bags, None, Other Temp Blank? Yes No

Thermometer: T1(0461), T2(1336), T3(0459), T4(0254), T5(0489), T6(0235) Type of Ice: Wet, Blue, None, Dry, Melted

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 0.3 °C

Average Corrected Temp (no temp blank only): °C See Exceptions ENV-FRM-MIN4-0142 1 Container

Correction Factor: TMC Cooler Temp Corrected w/temp blank: 0.3 °C

USDA Regulated Soil: (N/A, water sample, Other:)

Date/Initials of Person Examining Contents: AH 6/17/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (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 ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Table with 2 columns: Location (check one) and COMMENTS. Rows include Chain of Custody Present and Filled Out?, Chain of Custody Relinquished?, Sampler Name and/or Signature on COC?, Samples Arrived within Hold Time?, Short Hold Time Analysis (<72 hr)?, Rush Turn Around Time Requested?, Sufficient Volume?, Correct Containers Used?, Containers Intact?, Field Filtered Volume Received for Dissolved Tests?, Is sufficient information available to reconcile the samples to the COC?, All containers needing acid/base preservation have been checked?, All containers needing preservation are found to be in compliance with EPA recommendation?, Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS, Headspace in Methyl Mercury Container?, Extra labels present on soil VOA or WIDRO containers?, Trip Blank Present?, Trip Blank Custody Seals Present?

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time: Field Data Required? Yes No

Comments/Resolution:

Project Manager Review:

Signature of Project Manager

Date: 06/21/22

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).

Labeled by: AH (2)

Sample Condition Upon Receipt Form (SCUR)

Client Name: REL

Project #:

WO#: **40246647**

Courier: CS Logistics Fed Ex Speedee UPS Walto
 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 - 105 Type of Ice: Wet Blue Dry None

Cooler Temperature Uncorr: 3° / Corr: 3°

Samples on ice, cooling process has begun

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 6/16/22 Initials: MP

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: _____

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<u>6/16/22</u> <input checked="" type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>005 "1710"</u>
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
Trip Blank Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>6/16/22 MP</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Client used white out on COC 6/16/22 MP

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246647001-R	MW7	SW3535	33556	PFAS-36	B220727B_00
40246647001-R	MW7	SW3535	33556	PFAS-36	B220802A_05
40246647002-R	MW6	SW3535	33556	PFAS-36	B220727B_00
40246647003-R	SUMP 1	SW3535	33556	PFAS-36	B220727B_00
40246647003-R	SUMP 1	SW3535	33556	PFAS-36	B220802A_06
40246647004-R	MW4	SW3535	33556	PFAS-36	B220727B_00
40246647005-R	PZ-4	SW3535	33556	PFAS-36	B220727B_00
40246647006	PFAS BLANK	SW3535	33346	PFAS-36	B220707A_00
40246647007-R	MW-17	SW3535	33556	PFAS-36	B220727B_00
40246647007-R	MW-17	SW3535	33556	PFAS-36	B220802A_05
40246647008	PZ-16	SW3535	33346	PFAS-36	B220707A_01
40246647009	MW18	SW3535	33346	PFAS-36	B220707A_01
40246647010-R	TW26	SW3535	33556	PFAS-36	B220727B_00
40246647010-R	TW26	SW3535	33556	PFAS-36	B220802A_05
40246647011-R	TW27	SW3535	33556	PFAS-36	B220727B_00
40246647012-R	TW28	SW3535	33556	PFAS-36	B220727B_01

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDEInterference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Revision 1



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MW7
 Lab Sample ID 40246647001-R
 Lab File ID B220727B_009
 Matrix Non_Potable_Water
 Collected 06/14/2022 11:15
 Received 06/17/2022 10:00

Extraction Date 07/25/2022 15:49
 Total Amount Extracted 253mL
 Percent Moisture N/A
 Ical ID 220722B02
 CCal File B220727B_005
 Ending CCal File B220727B_017
 Blank File B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	27	2.0	0.44	0.44	1	375-22-4		07/27/2022 17:49
PFPeA	10	2.0	0.43	0.43	1	2706-90-3		07/27/2022 17:49
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6		07/27/2022 17:49
PFBS	240 D	3.5	0.93	0.93	2	375-73-5		08/03/2022 02:51
PFHxA	6.3	2.0	0.43	0.43	1	307-24-4		07/27/2022 17:49
4:2 FTS	ND	1.8	0.55	0.55	1	757124-72-4		07/27/2022 17:49
PFPeS	3.0	1.9	0.47	0.47	1	2706-91-4		07/27/2022 17:49
PFHpA	3.2	2.0	0.54	0.54	1	375-85-9		07/27/2022 17:49
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 17:49
PFHxS	15	1.8	0.50	0.50	1	355-46-4		07/27/2022 17:49
PFOA	11	2.0	0.58	0.58	1	335-67-1		07/27/2022 17:49
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2		07/27/2022 17:49
PFHpS	2.6	1.9	0.41	0.41	1	375-92-8		07/27/2022 17:49
PFNA	ND	2.0	0.73	0.73	1	375-95-1		07/27/2022 17:49
PFOSAm	ND	2.0	0.81	0.81	1	754-91-6		07/27/2022 17:49
PFOS	88	1.8	0.54	0.54	1	1763-23-1		07/27/2022 17:49
MeFOSA	ND	2.0	0.51	0.51	1	31506-32-8		07/27/2022 17:49
PFDA	ND	2.0	0.56	0.56	1	335-76-2		07/27/2022 17:49
EtFOSAm	ND	2.0	0.60	0.60	1	4151-50-2		07/27/2022 17:49
8:2 FTS	ND	1.9	0.65	0.65	1	39108-34-4		07/27/2022 17:49
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/27/2022 17:49
PFNS	ND	1.9	0.44	0.44	1	68259-12-1		07/27/2022 17:49
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8		07/27/2022 17:49
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 17:49
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		07/27/2022 17:49
PFDS	ND	1.9	0.44	0.44	1	335-77-3		07/27/2022 17:49
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 17:49
MeFOSE	ND	2.0	0.33	0.33	1	24448-09-7		07/27/2022 17:49
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2		07/27/2022 17:49
11-CI-PF3OUdS	ND	1.9	0.43	0.43	1	763051-92-9		07/27/2022 17:49
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		07/27/2022 17:49
PFDoS	ND	1.9	0.45	0.45	1	79780-39-5		07/27/2022 17:49
PFTDA	ND	2.0	0.47	0.47	1	376-06-7		07/27/2022 17:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW7	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647001-R	Total Amount Extracted	253mL
Lab File ID	B220727B_009	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 11:15	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	22	114	50-150		07/27/2022 17:49
13C4 PFOA	20	24	122	50-150		07/27/2022 17:49
13C2 PFDA	20	24	120	50-150		07/27/2022 17:49
13C4 PFOS	19	22	114	50-150		07/27/2022 17:49

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	19	96	25-150		07/27/2022 17:49
13C5 PFPeA	20	20	102	25-150		07/27/2022 17:49
13C3 PFBS	18	19	101	25-150	D	08/03/2022 02:51
13C2 4:2FTS	18	25	136	25-150		07/27/2022 17:49
13C5 PFHxA	20	23	118	25-150		07/27/2022 17:49
13C4 PFHpA	20	22	110	25-150		07/27/2022 17:49
13C3 PFHxS	19	21	110	25-150		07/27/2022 17:49
13C2 6:2FTS	19	20	105	25-150		07/27/2022 17:49
13C8 PFOA	20	22	109	25-150		07/27/2022 17:49
13C9 PFNA	20	21	105	25-150		07/27/2022 17:49
13C8 PFOS	19	19	98	25-150		07/27/2022 17:49
13C2 8:2FTS	19	17	91	25-150		07/27/2022 17:49
13C6 PFDA	20	17	85	25-150		07/27/2022 17:49
d3-MeFOSAA	20	12	63	25-150		07/27/2022 17:49
13C8 PFOSA	20	14	69	25-150		07/27/2022 17:49
d5-EtFOSAA	20	11	55	25-150		07/27/2022 17:49
13C7 PFUdA	20	14	69	25-150		07/27/2022 17:49
13C2 PFDoA	20	15	74	25-150		07/27/2022 17:49
13C2 PFTeDA	20	9.8	50	25-150		07/27/2022 17:49
13C3 HFPO-DA	20	19	94	25-150		07/27/2022 17:49
d7-N-MeFOSE	20	12	61	10-150		07/27/2022 17:49
d9-N-EtFOSE	20	10	51	10-150		07/27/2022 17:49
d3-N-MeFOSA	20	9.0	46	10-150		07/27/2022 17:49
d5-N-EtFOSA	20	8.3	42	10-150		07/27/2022 17:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW7	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647001-R	Total Amount Extracted	253mL
Lab File ID	B220727B_009	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 11:15	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.77	5.71	1911		07/27/2022 17:49
13C4 PFOA	N/A	N/A	7.04	6.96	2276		07/27/2022 17:49
13C2 PFDA	N/A	N/A	8.34	8.27	1405		07/27/2022 17:49
13C4 PFOS	N/A	N/A	8.81	8.75	1504		07/27/2022 17:49

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	2338		07/27/2022 17:49
13C5 PFPeA	N/A	N/A	5.13	5.13	1752		07/27/2022 17:49
13C3 PFBS	N/A	N/A	6.05	5.96	613	D	08/03/2022 02:51
13C2 4:2FTS	N/A	N/A	5.51	5.49	184		07/27/2022 17:49
13C5 PFHxA	N/A	N/A	5.78	5.81	1074		07/27/2022 17:49
13C4 PFHpA	N/A	N/A	6.41	6.39	2101		07/27/2022 17:49
13C3 PFHxS	N/A	N/A	7.44	7.45	1249		07/27/2022 17:49
13C2 6:2FTS	N/A	N/A	6.71	6.72	620		07/27/2022 17:49
13C8 PFOA	N/A	N/A	7.04	7.05	2674		07/27/2022 17:49
13C9 PFNA	N/A	N/A	7.69	7.70	2131		07/27/2022 17:49
13C8 PFOS	N/A	N/A	8.81	8.82	1829		07/27/2022 17:49
13C2 8:2FTS	N/A	N/A	7.97	7.98	1741		07/27/2022 17:49
13C6 PFDA	N/A	N/A	8.35	8.35	1559		07/27/2022 17:49
d3-MeFOSAA	N/A	N/A	8.21	8.22	1708		07/27/2022 17:49
13C8 PFOSA	N/A	N/A	10.54	10.56	952		07/27/2022 17:49
d5-EtFOSAA	N/A	N/A	8.50	8.51	1245		07/27/2022 17:49
13C7 PFUdA	N/A	N/A	9.01	9.02	1588		07/27/2022 17:49
13C2 PFDoA	N/A	N/A	9.68	9.69	1392		07/27/2022 17:49
13C2 PFTeDA	N/A	N/A	10.99	10.98	1003		07/27/2022 17:49
13C3 HFPO-DA	N/A	N/A	6.03	6.04	1293		07/27/2022 17:49
d7-N-MeFOSE	N/A	N/A	12.37	12.34	46		07/27/2022 17:49
d9-N-EtFOSE	N/A	N/A	12.84	12.84	244		07/27/2022 17:49
d3-N-MeFOSA	N/A	N/A	12.58	12.56	540		07/27/2022 17:49
d5-N-EtFOSA	N/A	N/A	12.99	13.01	648		07/27/2022 17:49

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW7	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647001-R	Total Amount Extracted	253mL
Lab File ID	B220727B_009	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 11:15	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.30	4.31	254		07/27/2022 17:49
PFPeA	N/A	N/A	5.14	5.12	192		07/27/2022 17:49
HFPO-DA	1.00	0.28	6.04	6.02	ND		07/27/2022 17:49
PFBS	0.49	0.43	6.05	5.99	677	D	08/03/2022 02:51
PFHxA	0.07	0.08	5.78	5.75	158		07/27/2022 17:49
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 17:49
PFPeS	0.47	0.41	6.75	6.73	245		07/27/2022 17:49
PFHpA	0.30	0.32	6.41	6.39	14		07/27/2022 17:49
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 17:49
PFHxS	0.51	0.39	7.45	7.43	610		07/27/2022 17:49
PFOA	0.34	0.39	7.05	7.03	160		07/27/2022 17:49
6:2 FTS	6.10	0.76	6.71	6.72	ND		07/27/2022 17:49
PFHpS	0.49	0.42	8.14	8.13	222		07/27/2022 17:49
PFNA	0.13	0.13	7.70	7.67	ND		07/27/2022 17:49
PFOSAm	N/A	N/A	10.55	10.51	ND		07/27/2022 17:49
PFOS	0.38	0.43	8.63	8.81	453		07/27/2022 17:49
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 17:49
PFDA	0.00	0.18	0.00	8.34	ND		07/27/2022 17:49
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 17:49
8:2 FTS	1.60	0.97	7.98	7.95	ND		07/27/2022 17:49
9-Cl-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 17:49
PFNS	0.00	0.55	0.00	9.52	ND		07/27/2022 17:49
PFUnDA	0.00	0.13	0.00	9.01	ND		07/27/2022 17:49
NMeFOSAA	0.00	0.95	0.00	8.35	ND		07/27/2022 17:49
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 17:49
PFDS	0.00	0.37	0.00	10.16	ND		07/27/2022 17:49
PFDOA	0.00	0.18	0.00	9.69	ND		07/27/2022 17:49
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 17:49
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 17:49
11-Cl-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 17:49
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 17:49
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 17:49
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 17:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MW6
 Lab Sample ID 40246647002-R
 Lab File ID B220727B_010
 Matrix Non_Potable_Water
 Collected 06/14/2022 12:55
 Received 06/17/2022 10:00

Extraction Date 07/25/2022 15:49
 Total Amount Extracted 256mL
 Percent Moisture N/A
 Ical ID 220722B02
 CCal File B220727B_005
 Ending CCal File B220727B_017
 Blank File B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	9.5	2.0	0.43	0.43	1	375-22-4		07/27/2022 18:09
PFPeA	1.3 J	2.0	0.43	0.43	1	2706-90-3		07/27/2022 18:09
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6		07/27/2022 18:09
PFBS	9.3	1.7	0.46	0.46	1	375-73-5		07/27/2022 18:09
PFHxA	1.2 J	2.0	0.43	0.43	1	307-24-4		07/27/2022 18:09
4:2 FTS	ND	1.8	0.55	0.55	1	757124-72-4		07/27/2022 18:09
PFPeS	ND	1.8	0.46	0.46	1	2706-91-4		07/27/2022 18:09
PFHpA	0.58 J	2.0	0.54	0.54	1	375-85-9		07/27/2022 18:09
DONA	ND	1.8	0.50	0.50	1	919005-14-4		07/27/2022 18:09
PFHxS	ND	1.8	0.50	0.50	1	355-46-4		07/27/2022 18:09
PFOA	3.0	2.0	0.57	0.57	1	335-67-1		07/27/2022 18:09
6:2 FTS	ND	1.9	0.63	0.63	1	27619-97-2		07/27/2022 18:09
PFHpS	ND	1.9	0.40	0.40	1	375-92-8		07/27/2022 18:09
PFNA	ND	2.0	0.72	0.72	1	375-95-1		07/27/2022 18:09
PFOSAm	ND	2.0	0.80	0.80	1	754-91-6		07/27/2022 18:09
PFOS	0.77 J	1.8	0.54	0.54	1	1763-23-1		07/27/2022 18:09
MeFOSA	ND	2.0	0.50	0.50	1	31506-32-8		07/27/2022 18:09
PFDA	ND	2.0	0.55	0.55	1	335-76-2		07/27/2022 18:09
EtFOSAm	ND	2.0	0.59	0.59	1	4151-50-2		07/27/2022 18:09
8:2 FTS	ND	1.9	0.64	0.64	1	39108-34-4		07/27/2022 18:09
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/27/2022 18:09
PFNS	ND	1.9	0.44	0.44	1	68259-12-1		07/27/2022 18:09
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8		07/27/2022 18:09
NMeFOSAA	ND	2.0	0.42	0.42	1	2355-31-9		07/27/2022 18:09
NEtFOSAA	ND	2.0	0.54	0.54	1	2991-50-6		07/27/2022 18:09
PFDS	ND	1.9	0.44	0.44	1	335-77-3		07/27/2022 18:09
PFDOA	ND	2.0	0.47	0.47	1	307-55-1		07/27/2022 18:09
MeFOSE	ND	2.0	0.32	0.32	1	24448-09-7		07/27/2022 18:09
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2		07/27/2022 18:09
11-CI-PF3OUdS	ND	1.8	0.43	0.43	1	763051-92-9		07/27/2022 18:09
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		07/27/2022 18:09
PFDoS	ND	1.9	0.45	0.45	1	79780-39-5		07/27/2022 18:09
PFTDA	ND	2.0	0.47	0.47	1	376-06-7		07/27/2022 18:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW6	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647002-R	Total Amount Extracted	256mL
Lab File ID	B220727B_010	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 12:55	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	23	117	50-150		07/27/2022 18:09
13C4 PFOA	20	24	121	50-150		07/27/2022 18:09
13C2 PFDA	20	24	123	50-150		07/27/2022 18:09
13C4 PFOS	19	25	134	50-150		07/27/2022 18:09

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	16	83	25-150		07/27/2022 18:09
13C5 PFPeA	20	20	102	25-150		07/27/2022 18:09
13C3 PFBS	18	22	124	25-150		07/27/2022 18:09
13C2 4:2FTS	18	35	190	25-150	R	07/27/2022 18:09
13C5 PFHxA	20	25	127	25-150		07/27/2022 18:09
13C4 PFHpA	20	23	118	25-150		07/27/2022 18:09
13C3 PFHxS	18	24	129	25-150		07/27/2022 18:09
13C2 6:2FTS	19	22	117	25-150		07/27/2022 18:09
13C8 PFOA	20	24	123	25-150		07/27/2022 18:09
13C9 PFNA	20	23	116	25-150		07/27/2022 18:09
13C8 PFOS	19	23	123	25-150		07/27/2022 18:09
13C2 8:2FTS	19	21	113	25-150		07/27/2022 18:09
13C6 PFDA	20	23	115	25-150		07/27/2022 18:09
d3-MeFOSAA	20	22	111	25-150		07/27/2022 18:09
13C8 PFOSA	20	18	93	25-150		07/27/2022 18:09
d5-EtFOSAA	20	15	75	25-150		07/27/2022 18:09
13C7 PFUdA	20	21	108	25-150		07/27/2022 18:09
13C2 PFDoA	20	21	108	25-150		07/27/2022 18:09
13C2 PFTeDA	20	14	73	25-150		07/27/2022 18:09
13C3 HFPO-DA	20	20	105	25-150		07/27/2022 18:09
d7-N-MeFOSE	20	13	65	10-150		07/27/2022 18:09
d9-N-EtFOSE	20	9.2	47	10-150		07/27/2022 18:09
d3-N-MeFOSA	20	9.8	50	10-150		07/27/2022 18:09
d5-N-EtFOSA	20	8.1	41	10-150		07/27/2022 18:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW6	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647002-R	Total Amount Extracted	256mL
Lab File ID	B220727B_010	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 12:55	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.77	5.71	1595		07/27/2022 18:09
13C4 PFOA	N/A	N/A	7.04	6.96	2120		07/27/2022 18:09
13C2 PFDA	N/A	N/A	8.36	8.27	1328		07/27/2022 18:09
13C4 PFOS	N/A	N/A	8.83	8.75	2282		07/27/2022 18:09

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	1881		07/27/2022 18:09
13C5 PFPeA	N/A	N/A	5.12	5.13	1219		07/27/2022 18:09
13C3 PFBS	N/A	N/A	6.01	5.96	432		07/27/2022 18:09
13C2 4:2FTS	N/A	N/A	5.51	5.49	176	R	07/27/2022 18:09
13C5 PFHxA	N/A	N/A	5.77	5.81	1195		07/27/2022 18:09
13C4 PFHpA	N/A	N/A	6.40	6.39	1989		07/27/2022 18:09
13C3 PFHxS	N/A	N/A	7.44	7.45	1741		07/27/2022 18:09
13C2 6:2FTS	N/A	N/A	6.71	6.72	577		07/27/2022 18:09
13C8 PFOA	N/A	N/A	7.04	7.05	2256		07/27/2022 18:09
13C9 PFNA	N/A	N/A	7.69	7.70	1555		07/27/2022 18:09
13C8 PFOS	N/A	N/A	8.83	8.82	2029		07/27/2022 18:09
13C2 8:2FTS	N/A	N/A	7.98	7.98	1815		07/27/2022 18:09
13C6 PFDA	N/A	N/A	8.36	8.35	1705		07/27/2022 18:09
d3-MeFOSAA	N/A	N/A	8.22	8.22	2043		07/27/2022 18:09
13C8 PFOSA	N/A	N/A	10.56	10.56	1632		07/27/2022 18:09
d5-EtFOSAA	N/A	N/A	8.51	8.51	1171		07/27/2022 18:09
13C7 PFUdA	N/A	N/A	9.03	9.02	2148		07/27/2022 18:09
13C2 PFDoA	N/A	N/A	9.70	9.69	1549		07/27/2022 18:09
13C2 PFTeDA	N/A	N/A	11.00	10.98	1005		07/27/2022 18:09
13C3 HFPO-DA	N/A	N/A	6.03	6.04	1352		07/27/2022 18:09
d7-N-MeFOSE	N/A	N/A	12.36	12.34	48		07/27/2022 18:09
d9-N-EtFOSE	N/A	N/A	12.84	12.84	325		07/27/2022 18:09
d3-N-MeFOSA	N/A	N/A	12.58	12.56	566		07/27/2022 18:09
d5-N-EtFOSA	N/A	N/A	13.00	13.01	601		07/27/2022 18:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW6	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647002-R	Total Amount Extracted	256mL
Lab File ID	B220727B_010	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 12:55	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.29	4.31	162		07/27/2022 18:09
PFPeA	N/A	N/A	5.13	5.12	53	J	07/27/2022 18:09
HFPO-DA	0.38	0.28	6.04	6.02	ND		07/27/2022 18:09
PFBS	0.42	0.48	6.01	5.99	180		07/27/2022 18:09
PFHxA	0.08	0.08	5.78	5.75	53	J	07/27/2022 18:09
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 18:09
PFPeS	0.51	0.41	6.75	6.73	ND		07/27/2022 18:09
PFHpA	0.29	0.32	6.41	6.39	17	J	07/27/2022 18:09
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 18:09
PFHxS	0.47	0.39	7.45	7.43	ND		07/27/2022 18:09
PFOA	0.32	0.39	7.05	7.03	82		07/27/2022 18:09
6:2 FTS	0.73	0.76	6.71	6.72	ND		07/27/2022 18:09
PFHpS	0.35	0.42	8.16	8.13	ND		07/27/2022 18:09
PFNA	0.16	0.13	7.70	7.67	ND		07/27/2022 18:09
PFOSAm	N/A	N/A	10.57	10.51	ND		07/27/2022 18:09
PFOS	0.33	0.43	8.61	8.81	143	J	07/27/2022 18:09
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 18:09
PFDA	0.00	0.18	0.00	8.34	ND		07/27/2022 18:09
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 18:09
8:2 FTS	0.00	0.97	0.00	7.95	ND		07/27/2022 18:09
9-CI-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 18:09
PFNS	0.00	0.55	0.00	9.52	ND		07/27/2022 18:09
PFUnDA	0.00	0.13	0.00	9.01	ND		07/27/2022 18:09
NMeFOSAA	0.00	0.95	8.08	8.35	ND		07/27/2022 18:09
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 18:09
PFDS	0.00	0.37	0.00	10.16	ND		07/27/2022 18:09
PFDOA	0.00	0.18	0.00	9.69	ND		07/27/2022 18:09
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 18:09
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 18:09
11-CI-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 18:09
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 18:09
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 18:09
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 18:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SUMP 1	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647003-R	Total Amount Extracted	254mL
Lab File ID	B220727B_011	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 14:30	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	11	2.0	0.43	0.43	1	375-22-4		07/27/2022 18:29
PFPeA	12	2.0	0.43	0.43	1	2706-90-3		07/27/2022 18:29
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6		07/27/2022 18:29
PFBS	130 D	17	4.7	4.7	10	375-73-5		08/03/2022 06:11
PFHxA	10	2.0	0.43	0.43	1	307-24-4		07/27/2022 18:29
4:2 FTS	ND	1.8	0.55	0.55	1	757124-72-4		07/27/2022 18:29
PFPeS	4.9	1.8	0.47	0.47	1	2706-91-4		07/27/2022 18:29
PFHpA	5.4	2.0	0.54	0.54	1	375-85-9		07/27/2022 18:29
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 18:29
PFHxS	18	1.8	0.50	0.50	1	355-46-4		07/27/2022 18:29
PFOA	11	2.0	0.58	0.58	1	335-67-1		07/27/2022 18:29
6:2 FTS	1.7 J	1.9	0.63	0.63	1	27619-97-2		07/27/2022 18:29
PFHpS	7.4	1.9	0.40	0.40	1	375-92-8		07/27/2022 18:29
PFNA	1.8 J	2.0	0.73	0.73	1	375-95-1		07/27/2022 18:29
PFOSAm	ND	2.0	0.80	0.80	1	754-91-6		07/27/2022 18:29
PFOS	860 D	18	5.4	5.4	10	1763-23-1		08/03/2022 06:11
MeFOSA	ND	2.0	0.50	0.50	1	31506-32-8		07/27/2022 18:29
PFDA	1.3 J	2.0	0.55	0.55	1	335-76-2		07/27/2022 18:29
EtFOSAm	ND	2.0	0.60	0.60	1	4151-50-2		07/27/2022 18:29
8:2 FTS	ND	1.9	0.64	0.64	1	39108-34-4		07/27/2022 18:29
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/27/2022 18:29
PFNS	ND	1.9	0.44	0.44	1	68259-12-1		07/27/2022 18:29
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8		07/27/2022 18:29
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 18:29
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		07/27/2022 18:29
PFDS	ND	1.9	0.44	0.44	1	335-77-3		07/27/2022 18:29
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 18:29
MeFOSE	ND	2.0	0.32	0.32	1	24448-09-7		07/27/2022 18:29
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2		07/27/2022 18:29
11-CI-PF3OUdS	ND	1.9	0.43	0.43	1	763051-92-9		07/27/2022 18:29
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		07/27/2022 18:29
PFDoS	ND	1.9	0.45	0.45	1	79780-39-5		07/27/2022 18:29
PFTDA	ND	2.0	0.47	0.47	1	376-06-7		07/27/2022 18:29

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SUMP 1	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647003-R	Total Amount Extracted	254mL
Lab File ID	B220727B_011	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 14:30	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	23	116	50-150		07/27/2022 18:29
13C4 PFOA	20	24	121	50-150		07/27/2022 18:29
13C2 PFDA	20	22	112	50-150		07/27/2022 18:29
13C4 PFOS	19	17	89	50-150		07/27/2022 18:29

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	21	107	25-150		07/27/2022 18:29
13C5 PFPeA	20	21	107	25-150		07/27/2022 18:29
13C3 PFBS	18	18	99	25-150	D	08/03/2022 06:11
13C2 4:2FTS	18	28	153	25-150	R	07/27/2022 18:29
13C5 PFHxA	20	22	112	25-150		07/27/2022 18:29
13C4 PFHpA	20	20	103	25-150		07/27/2022 18:29
13C3 PFHxS	19	21	114	25-150		07/27/2022 18:29
13C2 6:2FTS	19	18	98	25-150		07/27/2022 18:29
13C8 PFOA	20	22	113	25-150		07/27/2022 18:29
13C9 PFNA	20	21	105	25-150		07/27/2022 18:29
13C8 PFOS	19	20	104	25-150	D	08/03/2022 06:11
13C2 8:2FTS	19	19	102	25-150		07/27/2022 18:29
13C6 PFDA	20	19	94	25-150		07/27/2022 18:29
d3-MeFOSAA	20	16	83	25-150		07/27/2022 18:29
13C8 PFOSA	20	15	78	25-150		07/27/2022 18:29
d5-EtFOSAA	20	13	65	25-150		07/27/2022 18:29
13C7 PFUdA	20	16	83	25-150		07/27/2022 18:29
13C2 PFDoA	20	16	81	25-150		07/27/2022 18:29
13C2 PFTeDA	20	14	73	25-150		07/27/2022 18:29
13C3 HFPO-DA	20	20	100	25-150		07/27/2022 18:29
d7-N-MeFOSE	20	13	67	10-150		07/27/2022 18:29
d9-N-EtFOSE	20	13	65	10-150		07/27/2022 18:29
d3-N-MeFOSA	20	6.9	35	10-150		07/27/2022 18:29
d5-N-EtFOSA	20	6.5	33	10-150		07/27/2022 18:29

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SUMP 1	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647003-R	Total Amount Extracted	254mL
Lab File ID	B220727B_011	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 14:30	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.77	5.71	1756		07/27/2022 18:29
13C4 PFOA	N/A	N/A	7.04	6.96	2348		07/27/2022 18:29
13C2 PFDA	N/A	N/A	8.36	8.27	1815		07/27/2022 18:29
13C4 PFOS	N/A	N/A	8.83	8.75	1108		07/27/2022 18:29

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	2696		07/27/2022 18:29
13C5 PFPeA	N/A	N/A	5.13	5.13	2101		07/27/2022 18:29
13C3 PFBS	N/A	N/A	6.04	5.96	447	D	08/03/2022 06:11
13C2 4:2FTS	N/A	N/A	5.51	5.49	203	R	07/27/2022 18:29
13C5 PFHxA	N/A	N/A	5.78	5.81	978		07/27/2022 18:29
13C4 PFHpA	N/A	N/A	6.41	6.39	1685		07/27/2022 18:29
13C3 PFHxS	N/A	N/A	7.45	7.45	1075		07/27/2022 18:29
13C2 6:2FTS	N/A	N/A	6.71	6.72	548		07/27/2022 18:29
13C8 PFOA	N/A	N/A	7.04	7.05	1868		07/27/2022 18:29
13C9 PFNA	N/A	N/A	7.69	7.70	1631		07/27/2022 18:29
13C8 PFOS	N/A	N/A	8.86	8.80	1637	D	08/03/2022 06:11
13C2 8:2FTS	N/A	N/A	7.98	7.98	1184		07/27/2022 18:29
13C6 PFDA	N/A	N/A	8.36	8.35	1452		07/27/2022 18:29
d3-MeFOSAA	N/A	N/A	8.22	8.22	1552		07/27/2022 18:29
13C8 PFOSA	N/A	N/A	10.55	10.56	1020		07/27/2022 18:29
d5-EtFOSAA	N/A	N/A	8.51	8.51	907		07/27/2022 18:29
13C7 PFUdA	N/A	N/A	9.03	9.02	1922		07/27/2022 18:29
13C2 PFDoA	N/A	N/A	9.70	9.69	1110		07/27/2022 18:29
13C2 PFTeDA	N/A	N/A	11.00	10.98	1312		07/27/2022 18:29
13C3 HFPO-DA	N/A	N/A	6.04	6.04	1557		07/27/2022 18:29
d7-N-MeFOSE	N/A	N/A	12.35	12.34	42		07/27/2022 18:29
d9-N-EtFOSE	N/A	N/A	12.82	12.84	50		07/27/2022 18:29
d3-N-MeFOSA	N/A	N/A	12.56	12.56	627		07/27/2022 18:29
d5-N-EtFOSA	N/A	N/A	12.97	13.01	800		07/27/2022 18:29

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SUMP 1	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647003-R	Total Amount Extracted	254mL
Lab File ID	B220727B_011	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 14:30	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.30	4.31	180		07/27/2022 18:29
PFPeA	N/A	N/A	5.13	5.12	231		07/27/2022 18:29
HFPO-DA	0.30	0.28	6.04	6.02	ND		07/27/2022 18:29
PFBS	0.50	0.45	6.05	5.99	701	D	08/03/2022 06:11
PFHxA	0.08	0.08	5.78	5.75	174		07/27/2022 18:29
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 18:29
PFPeS	0.49	0.41	6.75	6.73	219		07/27/2022 18:29
PFHpA	0.30	0.32	6.42	6.39	21		07/27/2022 18:29
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 18:29
PFHxS	0.50	0.39	7.45	7.43	611		07/27/2022 18:29
PFOA	0.36	0.39	7.05	7.03	247		07/27/2022 18:29
6:2 FTS	0.87	0.76	6.72	6.72	350	J	07/27/2022 18:29
PFHpS	0.48	0.42	8.16	8.13	243		07/27/2022 18:29
PFNA	0.13	0.13	7.70	7.67	322	J	07/27/2022 18:29
PFOSAm	N/A	N/A	10.56	10.51	ND		07/27/2022 18:29
PFOS	0.38	0.38	8.87	8.81	378	D	08/03/2022 06:11
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 18:29
PFDA	0.17	0.18	8.37	8.34	194	J	07/27/2022 18:29
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 18:29
8:2 FTS	0.00	0.97	0.00	7.95	ND		07/27/2022 18:29
9-Cl-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 18:29
PFNS	0.60	0.55	9.52	9.52	ND		07/27/2022 18:29
PFUnDA	0.05	0.13	9.04	9.01	ND		07/27/2022 18:29
NMeFOSAA	0.66	0.95	8.23	8.35	ND		07/27/2022 18:29
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 18:29
PFDS	0.79	0.37	10.17	10.16	ND		07/27/2022 18:29
PFDOA	0.12	0.18	9.71	9.69	ND		07/27/2022 18:29
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 18:29
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 18:29
11-Cl-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 18:29
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 18:29
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 18:29
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 18:29

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID MW4
 Lab Sample ID 40246647004-R
 Lab File ID B220727B_012
 Matrix Non_Potable_Water
 Collected 06/14/2022 16:00
 Received 06/17/2022 10:00

Extraction Date 07/25/2022 15:49
 Total Amount Extracted 253mL
 Percent Moisture N/A
 Ical ID 220722B02
 CCal File B220727B_005
 Ending CCal File B220727B_017
 Blank File B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	12	2.0	0.44	0.44	1	375-22-4		07/27/2022 18:49
PFPeA	1.5 J	2.0	0.43	0.43	1	2706-90-3		07/27/2022 18:49
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6		07/27/2022 18:49
PFBS	4.9	1.8	0.47	0.47	1	375-73-5		07/27/2022 18:49
PFHxA	2.2	2.0	0.43	0.43	1	307-24-4		07/27/2022 18:49
4:2 FTS	ND	1.9	0.55	0.55	1	757124-72-4		07/27/2022 18:49
PFPeS	ND	1.9	0.47	0.47	1	2706-91-4		07/27/2022 18:49
PFHpA	1.8 J	2.0	0.54	0.54	1	375-85-9		07/27/2022 18:49
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 18:49
PFHxS	ND	1.8	0.50	0.50	1	355-46-4		07/27/2022 18:49
PFOA	3.9	2.0	0.58	0.58	1	335-67-1		07/27/2022 18:49
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2		07/27/2022 18:49
PFHpS	ND	1.9	0.41	0.41	1	375-92-8		07/27/2022 18:49
PFNA	0.81 J	2.0	0.73	0.73	1	375-95-1		07/27/2022 18:49
PFOSAm	ND	2.0	0.81	0.81	1	754-91-6		07/27/2022 18:49
PFOS	32	1.8	0.54	0.54	1	1763-23-1		07/27/2022 18:49
MeFOSA	ND	2.0	0.51	0.51	1	31506-32-8		07/27/2022 18:49
PFDA	ND	2.0	0.56	0.56	1	335-76-2		07/27/2022 18:49
EtFOSAm	ND	2.0	0.60	0.60	1	4151-50-2		07/27/2022 18:49
8:2 FTS	ND	1.9	0.65	0.65	1	39108-34-4		07/27/2022 18:49
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/27/2022 18:49
PFNS	ND	1.9	0.44	0.44	1	68259-12-1		07/27/2022 18:49
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8		07/27/2022 18:49
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 18:49
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		07/27/2022 18:49
PFDS	ND	1.9	0.45	0.45	1	335-77-3		07/27/2022 18:49
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 18:49
MeFOSE	ND	2.0	0.33	0.33	1	24448-09-7		07/27/2022 18:49
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2		07/27/2022 18:49
11-CI-PF3OUdS	ND	1.9	0.43	0.43	1	763051-92-9		07/27/2022 18:49
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		07/27/2022 18:49
PFDoS	ND	1.9	0.46	0.46	1	79780-39-5		07/27/2022 18:49
PFTDA	ND	2.0	0.47	0.47	1	376-06-7		07/27/2022 18:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW4	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647004-R	Total Amount Extracted	253mL
Lab File ID	B220727B_012	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 16:00	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	22	109	50-150		07/27/2022 18:49
13C4 PFOA	20	24	121	50-150		07/27/2022 18:49
13C2 PFDA	20	26	131	50-150		07/27/2022 18:49
13C4 PFOS	19	23	119	50-150		07/27/2022 18:49

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	21	105	25-150		07/27/2022 18:49
13C5 PFPeA	20	21	104	25-150		07/27/2022 18:49
13C3 PFBS	18	22	119	25-150		07/27/2022 18:49
13C2 4:2FTS	19	36	196	25-150	R	07/27/2022 18:49
13C5 PFHxA	20	24	121	25-150		07/27/2022 18:49
13C4 PFHpA	20	22	109	25-150		07/27/2022 18:49
13C3 PFHxS	19	23	121	25-150		07/27/2022 18:49
13C2 6:2FTS	19	24	128	25-150		07/27/2022 18:49
13C8 PFOA	20	23	116	25-150		07/27/2022 18:49
13C9 PFNA	20	23	114	25-150		07/27/2022 18:49
13C8 PFOS	19	22	118	25-150		07/27/2022 18:49
13C2 8:2FTS	19	23	121	25-150		07/27/2022 18:49
13C6 PFDA	20	23	117	25-150		07/27/2022 18:49
d3-MeFOSAA	20	20	103	25-150		07/27/2022 18:49
13C8 PFOSA	20	19	97	25-150		07/27/2022 18:49
d5-EtFOSAA	20	17	84	25-150		07/27/2022 18:49
13C7 PFUdA	20	23	114	25-150		07/27/2022 18:49
13C2 PFDaA	20	24	119	25-150		07/27/2022 18:49
13C2 PFTeDA	20	16	83	25-150		07/27/2022 18:49
13C3 HFPO-DA	20	21	104	25-150		07/27/2022 18:49
d7-N-MeFOSE	20	17	84	10-150		07/27/2022 18:49
d9-N-EtFOSE	20	13	67	10-150		07/27/2022 18:49
d3-N-MeFOSA	20	3.6	18	10-150		07/27/2022 18:49
d5-N-EtFOSA	20	2.8	14	10-150		07/27/2022 18:49

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW4	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647004-R	Total Amount Extracted	253mL
Lab File ID	B220727B_012	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 16:00	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.77	5.71	1883		07/27/2022 18:49
13C4 PFOA	N/A	N/A	7.05	6.96	2086		07/27/2022 18:49
13C2 PFDA	N/A	N/A	8.36	8.27	1610		07/27/2022 18:49
13C4 PFOS	N/A	N/A	8.83	8.75	1316		07/27/2022 18:49

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	2144		07/27/2022 18:49
13C5 PFPeA	N/A	N/A	5.13	5.13	1598		07/27/2022 18:49
13C3 PFBS	N/A	N/A	6.01	5.96	669		07/27/2022 18:49
13C2 4:2FTS	N/A	N/A	5.51	5.49	252	R	07/27/2022 18:49
13C5 PFHxA	N/A	N/A	5.78	5.81	995		07/27/2022 18:49
13C4 PFHpA	N/A	N/A	6.41	6.39	1643		07/27/2022 18:49
13C3 PFHxS	N/A	N/A	7.45	7.45	1063		07/27/2022 18:49
13C2 6:2FTS	N/A	N/A	6.71	6.72	439		07/27/2022 18:49
13C8 PFOA	N/A	N/A	7.04	7.05	1965		07/27/2022 18:49
13C9 PFNA	N/A	N/A	7.70	7.70	2436		07/27/2022 18:49
13C8 PFOS	N/A	N/A	8.83	8.82	912		07/27/2022 18:49
13C2 8:2FTS	N/A	N/A	7.99	7.98	664		07/27/2022 18:49
13C6 PFDA	N/A	N/A	8.36	8.35	1586		07/27/2022 18:49
d3-MeFOSAA	N/A	N/A	8.23	8.22	1477		07/27/2022 18:49
13C8 PFOSA	N/A	N/A	10.56	10.56	1081		07/27/2022 18:49
d5-EtFOSAA	N/A	N/A	8.52	8.51	1080		07/27/2022 18:49
13C7 PFUdA	N/A	N/A	9.03	9.02	1639		07/27/2022 18:49
13C2 PFDoA	N/A	N/A	9.70	9.69	1315		07/27/2022 18:49
13C2 PFTeDA	N/A	N/A	11.02	10.98	1721		07/27/2022 18:49
13C3 HFPO-DA	N/A	N/A	6.04	6.04	927		07/27/2022 18:49
d7-N-MeFOSE	N/A	N/A	12.36	12.34	54		07/27/2022 18:49
d9-N-EtFOSE	N/A	N/A	12.83	12.84	72		07/27/2022 18:49
d3-N-MeFOSA	N/A	N/A	12.57	12.56	367		07/27/2022 18:49
d5-N-EtFOSA	N/A	N/A	12.98	13.01	497		07/27/2022 18:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW4	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647004-R	Total Amount Extracted	253mL
Lab File ID	B220727B_012	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 16:00	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.30	4.31	81		07/27/2022 18:49
PFPeA	N/A	N/A	5.13	5.12	48	J	07/27/2022 18:49
HFPO-DA	0.24	0.28	6.05	6.02	ND		07/27/2022 18:49
PFBS	0.47	0.48	6.02	5.99	202		07/27/2022 18:49
PFHxA	0.10	0.08	5.78	5.75	76		07/27/2022 18:49
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 18:49
PFPeS	0.49	0.41	6.76	6.73	ND		07/27/2022 18:49
PFHpA	0.26	0.32	6.42	6.39	27	J	07/27/2022 18:49
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 18:49
PFHxS	0.42	0.39	7.46	7.43	ND		07/27/2022 18:49
PFOA	0.39	0.39	7.05	7.03	185		07/27/2022 18:49
6:2 FTS	1.10	0.76	6.72	6.72	ND		07/27/2022 18:49
PFHpS	0.59	0.42	8.16	8.13	ND		07/27/2022 18:49
PFNA	0.13	0.13	7.71	7.67	204	J	07/27/2022 18:49
PFOSAm	N/A	N/A	10.57	10.51	ND		07/27/2022 18:49
PFOS	0.36	0.43	8.84	8.81	373		07/27/2022 18:49
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 18:49
PFDA	0.21	0.18	8.37	8.34	ND		07/27/2022 18:49
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 18:49
8:2 FTS	0.00	0.97	0.00	7.95	ND		07/27/2022 18:49
9-CI-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 18:49
PFNS	0.00	0.55	0.00	9.52	ND		07/27/2022 18:49
PFUnDA	0.14	0.13	9.03	9.01	ND		07/27/2022 18:49
NMeFOSAA	0.43	0.95	8.24	8.35	ND		07/27/2022 18:49
NEtFOSAA	0.76	0.63	8.53	8.51	ND		07/27/2022 18:49
PFDS	0.00	0.37	0.00	10.16	ND		07/27/2022 18:49
PFDOA	0.11	0.18	9.71	9.69	ND		07/27/2022 18:49
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 18:49
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 18:49
11-CI-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 18:49
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 18:49
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 18:49
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 18:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-4	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647005-R	Total Amount Extracted	257mL
Lab File ID	B220727B_013	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 17:00	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	0.43	0.43	1	375-22-4		07/27/2022 19:09
PFPeA	ND	1.9	0.43	0.43	1	2706-90-3		07/27/2022 19:09
HFPO-DA	ND	1.9	0.51	0.51	1	13252-13-6		07/27/2022 19:09
PFBS	0.67 J	1.7	0.46	0.46	1	375-73-5		07/27/2022 19:09
PFHxA	ND	1.9	0.43	0.43	1	307-24-4		07/27/2022 19:09
4:2 FTS	ND	1.8	0.54	0.54	1	757124-72-4		07/27/2022 19:09
PFPeS	ND	1.8	0.46	0.46	1	2706-91-4		07/27/2022 19:09
PFHpA	ND	1.9	0.54	0.54	1	375-85-9		07/27/2022 19:09
DONA	ND	1.8	0.50	0.50	1	919005-14-4		07/27/2022 19:09
PFHxS	ND	1.8	0.49	0.49	1	355-46-4		07/27/2022 19:09
PFOA	ND	1.9	0.57	0.57	1	335-67-1		07/27/2022 19:09
6:2 FTS	ND	1.8	0.63	0.63	1	27619-97-2		07/27/2022 19:09
PFHpS	ND	1.8	0.40	0.40	1	375-92-8		07/27/2022 19:09
PFNA	ND	1.9	0.72	0.72	1	375-95-1		07/27/2022 19:09
PFOSAm	ND	1.9	0.80	0.80	1	754-91-6		07/27/2022 19:09
PFOS	0.86 J	1.8	0.53	0.53	1	1763-23-1		07/27/2022 19:09
MeFOSA	ND	1.9	0.50	0.50	1	31506-32-8		07/27/2022 19:09
PFDA	ND	1.9	0.55	0.55	1	335-76-2		07/27/2022 19:09
EtFOSAm	ND	1.9	0.59	0.59	1	4151-50-2		07/27/2022 19:09
8:2 FTS	ND	1.9	0.64	0.64	1	39108-34-4		07/27/2022 19:09
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/27/2022 19:09
PFNS	ND	1.9	0.43	0.43	1	68259-12-1		07/27/2022 19:09
PFUnDA	ND	1.9	0.53	0.53	1	2058-94-8		07/27/2022 19:09
NMeFOSAA	ND	1.9	0.42	0.42	1	2355-31-9		07/27/2022 19:09
NEtFOSAA	ND	1.9	0.54	0.54	1	2991-50-6		07/27/2022 19:09
PFDS	ND	1.9	0.44	0.44	1	335-77-3		07/27/2022 19:09
PFDOA	ND	1.9	0.47	0.47	1	307-55-1		07/27/2022 19:09
MeFOSE	ND	1.9	0.32	0.32	1	24448-09-7		07/27/2022 19:09
EtFOSE	ND	1.9	0.48	0.48	1	1691-99-2		07/27/2022 19:09
11-CI-PF3OUdS	ND	1.8	0.42	0.42	1	763051-92-9		07/27/2022 19:09
PFTTrDA	ND	1.9	0.61	0.61	1	72629-94-8		07/27/2022 19:09
PFDoS	ND	1.9	0.45	0.45	1	79780-39-5		07/27/2022 19:09
PFTDA	ND	1.9	0.46	0.46	1	376-06-7		07/27/2022 19:09

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-4	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647005-R	Total Amount Extracted	257mL
Lab File ID	B220727B_013	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 17:00	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	21	106	50-150		07/27/2022 19:09
13C4 PFOA	19	23	116	50-150		07/27/2022 19:09
13C2 PFDA	19	22	115	50-150		07/27/2022 19:09
13C4 PFOS	19	21	114	50-150		07/27/2022 19:09

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	22	112	25-150		07/27/2022 19:09
13C5 PFPeA	19	22	113	25-150		07/27/2022 19:09
13C3 PFBS	18	20	110	25-150		07/27/2022 19:09
13C2 4:2FTS	18	22	119	25-150		07/27/2022 19:09
13C5 PFHxA	19	24	123	25-150		07/27/2022 19:09
13C4 PFHpA	19	21	106	25-150		07/27/2022 19:09
13C3 PFHxS	18	21	112	25-150		07/27/2022 19:09
13C2 6:2FTS	18	19	103	25-150		07/27/2022 19:09
13C8 PFOA	19	22	112	25-150		07/27/2022 19:09
13C9 PFNA	19	21	107	25-150		07/27/2022 19:09
13C8 PFOS	19	20	107	25-150		07/27/2022 19:09
13C2 8:2FTS	19	19	102	25-150		07/27/2022 19:09
13C6 PFDA	19	21	107	25-150		07/27/2022 19:09
d3-MeFOSAA	19	16	82	25-150		07/27/2022 19:09
13C8 PFOSA	19	11	56	25-150		07/27/2022 19:09
d5-EtFOSAA	19	15	78	25-150		07/27/2022 19:09
13C7 PFUdA	19	18	92	25-150		07/27/2022 19:09
13C2 PFDoA	19	20	101	25-150		07/27/2022 19:09
13C2 PFTeDA	19	14	70	25-150		07/27/2022 19:09
13C3 HFPO-DA	19	20	104	25-150		07/27/2022 19:09
d7-N-MeFOSE	19	4.7	24	10-150		07/27/2022 19:09
d9-N-EtFOSE	19	4.7	24	10-150		07/27/2022 19:09
d3-N-MeFOSA	19	0.29	1	10-150	R	07/27/2022 19:09
d5-N-EtFOSA	19	0.25	1	10-150	R	07/27/2022 19:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-4	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647005-R	Total Amount Extracted	257mL
Lab File ID	B220727B_013	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 17:00	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.77	5.71	1884		07/27/2022 19:09
13C4 PFOA	N/A	N/A	7.04	6.96	2030		07/27/2022 19:09
13C2 PFDA	N/A	N/A	8.36	8.27	2001		07/27/2022 19:09
13C4 PFOS	N/A	N/A	8.82	8.75	1641		07/27/2022 19:09

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	2049		07/27/2022 19:09
13C5 PFPeA	N/A	N/A	5.13	5.13	2305		07/27/2022 19:09
13C3 PFBS	N/A	N/A	6.01	5.96	926		07/27/2022 19:09
13C2 4:2FTS	N/A	N/A	5.51	5.49	334		07/27/2022 19:09
13C5 PFHxA	N/A	N/A	5.78	5.81	1247		07/27/2022 19:09
13C4 PFHpA	N/A	N/A	6.41	6.39	1528		07/27/2022 19:09
13C3 PFHxS	N/A	N/A	7.45	7.45	1907		07/27/2022 19:09
13C2 6:2FTS	N/A	N/A	6.71	6.72	909		07/27/2022 19:09
13C8 PFOA	N/A	N/A	7.04	7.05	2535		07/27/2022 19:09
13C9 PFNA	N/A	N/A	7.70	7.70	1681		07/27/2022 19:09
13C8 PFOS	N/A	N/A	8.82	8.82	1988		07/27/2022 19:09
13C2 8:2FTS	N/A	N/A	7.98	7.98	2294		07/27/2022 19:09
13C6 PFDA	N/A	N/A	8.36	8.35	1277		07/27/2022 19:09
d3-MeFOSAA	N/A	N/A	8.22	8.22	1625		07/27/2022 19:09
13C8 PFOSA	N/A	N/A	10.53	10.56	1217		07/27/2022 19:09
d5-EtFOSAA	N/A	N/A	8.51	8.51	1394		07/27/2022 19:09
13C7 PFUdA	N/A	N/A	9.02	9.02	2462		07/27/2022 19:09
13C2 PFDoA	N/A	N/A	9.68	9.69	1443		07/27/2022 19:09
13C2 PFTeDA	N/A	N/A	10.99	10.98	1088		07/27/2022 19:09
13C3 HFPO-DA	N/A	N/A	6.03	6.04	1811		07/27/2022 19:09
d7-N-MeFOSE	N/A	N/A	12.34	12.34	42		07/27/2022 19:09
d9-N-EtFOSE	N/A	N/A	12.82	12.84	49		07/27/2022 19:09
d3-N-MeFOSA	N/A	N/A	12.56	12.56	162	R	07/27/2022 19:09
d5-N-EtFOSA	N/A	N/A	12.99	13.01	190	R	07/27/2022 19:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-4	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647005-R	Total Amount Extracted	257mL
Lab File ID	B220727B_013	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/14/2022 17:00	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.30	4.31	ND		07/27/2022 19:09
PFPeA	N/A	N/A	5.13	5.12	ND		07/27/2022 19:09
HFPO-DA	0.00	0.28	6.16	6.02	ND		07/27/2022 19:09
PFBS	0.50	0.48	6.02	5.99	139	J	07/27/2022 19:09
PFHxA	0.13	0.08	5.78	5.75	ND		07/27/2022 19:09
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 19:09
PFPeS	0.00	0.41	0.00	6.73	ND		07/27/2022 19:09
PFHpA	0.28	0.32	6.41	6.39	ND		07/27/2022 19:09
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 19:09
PFHxS	0.49	0.39	7.45	7.43	ND		07/27/2022 19:09
PFOA	0.28	0.39	7.05	7.03	ND		07/27/2022 19:09
6:2 FTS	0.97	0.76	6.71	6.72	ND		07/27/2022 19:09
PFHpS	0.00	0.42	0.00	8.13	ND		07/27/2022 19:09
PFNA	0.19	0.13	7.71	7.67	ND		07/27/2022 19:09
PFOSAm	N/A	N/A	0.00	10.51	ND		07/27/2022 19:09
PFOS	0.35	0.43	8.83	8.81	151	J	07/27/2022 19:09
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 19:09
PFDA	0.11	0.18	8.37	8.34	ND		07/27/2022 19:09
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 19:09
8:2 FTS	0.00	0.97	0.00	7.95	ND		07/27/2022 19:09
9-Cl-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 19:09
PFNS	0.00	0.55	0.00	9.52	ND		07/27/2022 19:09
PFUnDA	0.00	0.13	0.00	9.01	ND		07/27/2022 19:09
NMeFOSAA	0.00	0.95	0.00	8.35	ND		07/27/2022 19:09
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 19:09
PFDS	0.00	0.37	0.00	10.16	ND		07/27/2022 19:09
PFDOA	0.30	0.18	9.70	9.69	ND		07/27/2022 19:09
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 19:09
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 19:09
11-Cl-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 19:09
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 19:09
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 19:09
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 19:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PFAS BLANK	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647006	Total Amount Extracted	267mL
Lab File ID	B220707A_017	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/14/2022 18:00	CCal File	B220707A_007
Received	06/17/2022 10:00	Ending CCal File	B220707A_019
		Blank File	B220707A_009

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	0.41	0.41	1	375-22-4		07/07/2022 17:55
PFPeA	ND	1.9	0.41	0.41	1	2706-90-3		07/07/2022 17:55
HFPO-DA	ND	1.9	0.50	0.50	1	13252-13-6		07/07/2022 17:55
PFBS	ND	1.7	0.44	0.44	1	375-73-5		07/07/2022 17:55
PFHxA	ND	1.9	0.41	0.41	1	307-24-4		07/07/2022 17:55
4:2 FTS	ND	1.8	0.52	0.52	1	757124-72-4		07/07/2022 17:55
PFPeS	ND	1.8	0.45	0.45	1	2706-91-4		07/07/2022 17:55
PFHpA	ND	1.9	0.52	0.52	1	375-85-9		07/07/2022 17:55
DONA	ND	1.8	0.48	0.48	1	919005-14-4		07/07/2022 17:55
PFHxS	ND	1.7	0.48	0.48	1	355-46-4		07/07/2022 17:55
PFOA	ND	1.9	0.55	0.55	1	335-67-1		07/07/2022 17:55
6:2 FTS	ND	1.8	0.60	0.60	1	27619-97-2		07/07/2022 17:55
PFHpS	ND	1.8	0.39	0.39	1	375-92-8		07/07/2022 17:55
PFNA	ND	1.9	0.69	0.69	1	375-95-1		07/07/2022 17:55
PFOSAm	ND	1.9	0.77	0.77	1	754-91-6		07/07/2022 17:55
PFOS	ND	1.7	0.51	0.51	1	1763-23-1		07/07/2022 17:55
MeFOSA	ND	1.9	0.48	0.48	1	31506-32-8		07/07/2022 17:55
PFDA	ND	1.9	0.53	0.53	1	335-76-2		07/07/2022 17:55
EtFOSAm	ND	1.9	0.57	0.57	1	4151-50-2		07/07/2022 17:55
8:2 FTS	ND	1.8	0.61	0.61	1	39108-34-4		07/07/2022 17:55
9-CI-PF3ON	ND	1.7	0.29	0.29	1	756426-58-1		07/07/2022 17:55
PFNS	ND	1.8	0.42	0.42	1	68259-12-1		07/07/2022 17:55
PFUnDA	ND	1.9	0.51	0.51	1	2058-94-8		07/07/2022 17:55
NMeFOSAA	ND	1.9	0.41	0.41	1	2355-31-9		07/07/2022 17:55
NEtFOSAA	ND	1.9	0.52	0.52	1	2991-50-6		07/07/2022 17:55
PFDS	ND	1.8	0.42	0.42	1	335-77-3		07/07/2022 17:55
PFDOA	ND	1.9	0.45	0.45	1	307-55-1		07/07/2022 17:55
MeFOSE	ND	1.9	0.31	0.31	1	24448-09-7		07/07/2022 17:55
EtFOSE	ND	1.9	0.47	0.47	1	1691-99-2		07/07/2022 17:55
11-CI-PF3OUdS	ND	1.8	0.41	0.41	1	763051-92-9		07/07/2022 17:55
PFTTrDA	ND	1.9	0.58	0.58	1	72629-94-8		07/07/2022 17:55
PFDoS	ND	1.8	0.43	0.43	1	79780-39-5		07/07/2022 17:55
PFTDA	ND	1.9	0.45	0.45	1	376-06-7		07/07/2022 17:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PFAS BLANK	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647006	Total Amount Extracted	267mL
Lab File ID	B220707A_017	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/14/2022 18:00	CCal File	B220707A_007
Received	06/17/2022 10:00	Ending CCal File	B220707A_019
		Blank File	B220707A_009

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	17	93	50-150		07/07/2022 17:55
13C4 PFOA	19	19	100	50-150		07/07/2022 17:55
13C2 PFDA	19	19	103	50-150		07/07/2022 17:55
13C4 PFOS	18	17	97	50-150		07/07/2022 17:55

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	20	106	25-150		07/07/2022 17:55
13C5 PFPeA	19	20	106	25-150		07/07/2022 17:55
13C3 PFBS	17	19	108	25-150		07/07/2022 17:55
13C2 4:2FTS	18	20	112	25-150		07/07/2022 17:55
13C5 PFHxA	19	19	102	25-150		07/07/2022 17:55
13C4 PFHpA	19	21	110	25-150		07/07/2022 17:55
13C3 PFHxS	18	18	100	25-150		07/07/2022 17:55
13C2 6:2FTS	18	18	101	25-150		07/07/2022 17:55
13C8 PFOA	19	19	100	25-150		07/07/2022 17:55
13C9 PFNA	19	19	102	25-150		07/07/2022 17:55
13C8 PFOS	18	20	112	25-150		07/07/2022 17:55
13C2 8:2FTS	18	20	109	25-150		07/07/2022 17:55
13C6 PFDA	19	19	101	25-150		07/07/2022 17:55
d3-MeFOSAA	19	14	76	25-150		07/07/2022 17:55
13C8 PFOSA	19	10	55	25-150		07/07/2022 17:55
d5-EtFOSAA	19	13	72	25-150		07/07/2022 17:55
13C7 PFUdA	19	20	109	25-150		07/07/2022 17:55
13C2 PFDoA	19	20	104	25-150		07/07/2022 17:55
13C2 PFTeDA	19	17	89	25-150		07/07/2022 17:55
13C3 HFPO-DA	19	20	106	25-150		07/07/2022 17:55
d7-N-MeFOSE	19	4.8	26	10-150		07/07/2022 17:55
d9-N-EtFOSE	19	4.5	24	10-150		07/07/2022 17:55
d3-N-MeFOSA	19	0.046	0	10-150	R	07/07/2022 17:55
d5-N-EtFOSA	19	0.038	0	10-150	R	07/07/2022 17:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PFAS BLANK	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647006	Total Amount Extracted	267mL
Lab File ID	B220707A_017	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/14/2022 18:00	CCal File	B220707A_007
Received	06/17/2022 10:00	Ending CCal File	B220707A_019
		Blank File	B220707A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.78	5.81	1694		07/07/2022 17:55
13C4 PFOA	N/A	N/A	7.14	7.17	1708		07/07/2022 17:55
13C2 PFDA	N/A	N/A	8.54	8.54	2225		07/07/2022 17:55
13C4 PFOS	N/A	N/A	9.03	9.01	1950		07/07/2022 17:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.32	2602		07/07/2022 17:55
13C5 PFPeA	N/A	N/A	5.10	5.12	2128		07/07/2022 17:55
13C3 PFBS	N/A	N/A	6.04	6.06	2550		07/07/2022 17:55
13C2 4:2FTS	N/A	N/A	5.50	5.52	760		07/07/2022 17:55
13C5 PFHxA	N/A	N/A	5.78	5.81	1968		07/07/2022 17:55
13C4 PFHpA	N/A	N/A	6.46	6.49	1380		07/07/2022 17:55
13C3 PFHxS	N/A	N/A	7.57	7.59	1831		07/07/2022 17:55
13C2 6:2FTS	N/A	N/A	6.79	6.82	1502		07/07/2022 17:55
13C8 PFOA	N/A	N/A	7.14	7.17	1992		07/07/2022 17:55
13C9 PFNA	N/A	N/A	7.83	7.85	2059		07/07/2022 17:55
13C8 PFOS	N/A	N/A	9.03	9.01	3866		07/07/2022 17:55
13C2 8:2FTS	N/A	N/A	8.14	8.15	32571		07/07/2022 17:55
13C6 PFDA	N/A	N/A	8.54	8.54	1519		07/07/2022 17:55
d3-MeFOSAA	N/A	N/A	8.40	8.40	1530		07/07/2022 17:55
13C8 PFOSA	N/A	N/A	10.84	10.77	3493		07/07/2022 17:55
d5-EtFOSAA	N/A	N/A	8.71	8.71	1099		07/07/2022 17:55
13C7 PFUdA	N/A	N/A	9.23	9.22	2529		07/07/2022 17:55
13C2 PFDaA	N/A	N/A	9.93	9.90	1636		07/07/2022 17:55
13C2 PFTeDA	N/A	N/A	11.26	11.21	2655		07/07/2022 17:55
13C3 HFPO-DA	N/A	N/A	6.06	6.09	1871		07/07/2022 17:55
d7-N-MeFOSE	N/A	N/A	12.54	12.49	426		07/07/2022 17:55
d9-N-EtFOSE	N/A	N/A	12.99	12.96	465		07/07/2022 17:55
d3-N-MeFOSA	N/A	N/A	12.74	12.70	47	R	07/07/2022 17:55
d5-N-EtFOSA	N/A	N/A	13.15	13.11	61	R	07/07/2022 17:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PFAS BLANK	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647006	Total Amount Extracted	267mL
Lab File ID	B220707A_017	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/14/2022 18:00	CCal File	B220707A_007
Received	06/17/2022 10:00	Ending CCal File	B220707A_019
		Blank File	B220707A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.31	4.33	ND		07/07/2022 17:55
PFPeA	N/A	N/A	5.11	5.12	ND		07/07/2022 17:55
HFPO-DA	0.27	0.30	6.07	6.10	ND		07/07/2022 17:55
PFBS	0.43	0.40	6.04	6.07	ND		07/07/2022 17:55
PFHxA	0.13	0.08	5.79	5.82	ND		07/07/2022 17:55
4:2 FTS	0.00	0.92	0.00	5.53	ND		07/07/2022 17:55
PFPeS	0.00	0.43	0.00	6.86	ND		07/07/2022 17:55
PFHpA	0.35	0.30	6.47	6.50	ND		07/07/2022 17:55
DONA	0.00	0.57	0.00	6.75	ND		07/07/2022 17:55
PFHxS	0.77	0.37	7.57	7.60	ND		07/07/2022 17:55
PFOA	0.51	0.39	7.15	7.18	ND		07/07/2022 17:55
6:2 FTS	0.70	0.87	6.80	6.82	ND		07/07/2022 17:55
PFHpS	0.00	0.38	0.00	8.32	ND		07/07/2022 17:55
PFNA	0.13	0.15	7.84	7.86	ND		07/07/2022 17:55
PFOSAm	N/A	N/A	10.85	10.78	ND		07/07/2022 17:55
PFOS	0.33	0.40	9.03	9.03	ND		07/07/2022 17:55
MeFOSA	0.00	0.56	0.00	12.73	ND		07/07/2022 17:55
PFDA	0.00	0.19	0.00	8.58	ND		07/07/2022 17:55
EtFOSAm	0.00	0.61	0.00	13.10	ND		07/07/2022 17:55
8:2 FTS	0.00	1.10	0.00	8.15	ND		07/07/2022 17:55
9-Cl-PF3ON	0.00	0.05	0.00	9.52	ND		07/07/2022 17:55
PFNS	0.00	0.47	0.00	9.74	ND		07/07/2022 17:55
PFUnDA	0.11	0.13	9.24	9.22	ND		07/07/2022 17:55
NMeFOSAA	0.00	0.76	0.00	8.41	ND		07/07/2022 17:55
NEtFOSAA	0.00	0.72	0.00	8.72	ND		07/07/2022 17:55
PFDS	0.00	0.32	0.00	10.41	ND		07/07/2022 17:55
PFDOA	0.00	0.19	0.00	9.92	ND		07/07/2022 17:55
MeFOSE	N/A	N/A	0.00	12.52	ND		07/07/2022 17:55
EtFOSE	0.00	0.00	0.00	12.99	ND		07/07/2022 17:55
11-Cl-PF3OUdS	0.00	0.02	0.00	10.87	ND		07/07/2022 17:55
PFTTrDA	0.00	0.16	0.00	10.59	ND		07/07/2022 17:55
PFDoS	0.00	0.46	0.00	11.61	ND		07/07/2022 17:55
PFTDA	0.00	0.24	0.00	11.21	ND		07/07/2022 17:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW-17	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647007-R	Total Amount Extracted	253mL
Lab File ID	B220727B_014	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 10:40	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	19	2.0	0.44	0.44	1	375-22-4		07/27/2022 19:29
PFPeA	4.7	2.0	0.43	0.43	1	2706-90-3		07/27/2022 19:29
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6		07/27/2022 19:29
PFBS	230 D	3.5	0.94	0.94	2	375-73-5		08/03/2022 03:11
PFHxA	2.8	2.0	0.43	0.43	1	307-24-4		07/27/2022 19:29
4:2 FTS	ND	1.9	0.55	0.55	1	757124-72-4		07/27/2022 19:29
PFPeS	ND	1.9	0.47	0.47	1	2706-91-4		07/27/2022 19:29
PFHpA	2.6	2.0	0.54	0.54	1	375-85-9		07/27/2022 19:29
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 19:29
PFHxS	1.5 J	1.8	0.50	0.50	1	355-46-4		07/27/2022 19:29
PFOA	4.5	2.0	0.58	0.58	1	335-67-1		07/27/2022 19:29
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2		07/27/2022 19:29
PFHpS	0.42 J	1.9	0.41	0.41	1	375-92-8		07/27/2022 19:29
PFNA	3.1	2.0	0.73	0.73	1	375-95-1		07/27/2022 19:29
PFOSAm	ND	2.0	0.81	0.81	1	754-91-6		07/27/2022 19:29
PFOS	200 D	3.7	1.1	1.1	2	1763-23-1		08/03/2022 03:11
MeFOSA	ND	2.0	0.51	0.51	1	31506-32-8		07/27/2022 19:29
PFDA	13	2.0	0.56	0.56	1	335-76-2		07/27/2022 19:29
EtFOSAm	ND	2.0	0.60	0.60	1	4151-50-2		07/27/2022 19:29
8:2 FTS	ND	1.9	0.65	0.65	1	39108-34-4		07/27/2022 19:29
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/27/2022 19:29
PFNS	ND	1.9	0.44	0.44	1	68259-12-1		07/27/2022 19:29
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8		07/27/2022 19:29
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 19:29
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		07/27/2022 19:29
PFDS	ND	1.9	0.45	0.45	1	335-77-3		07/27/2022 19:29
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 19:29
MeFOSE	ND	2.0	0.33	0.33	1	24448-09-7		07/27/2022 19:29
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2		07/27/2022 19:29
11-CI-PF3OUdS	ND	1.9	0.43	0.43	1	763051-92-9		07/27/2022 19:29
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		07/27/2022 19:29
PFDoS	ND	1.9	0.46	0.46	1	79780-39-5		07/27/2022 19:29
PFTDA	ND	2.0	0.47	0.47	1	376-06-7		07/27/2022 19:29

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW-17	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647007-R	Total Amount Extracted	253mL
Lab File ID	B220727B_014	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 10:40	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	19	94	50-150		07/27/2022 19:29
13C4 PFOA	20	25	124	50-150		07/27/2022 19:29
13C2 PFDA	20	23	116	50-150		07/27/2022 19:29
13C4 PFOS	19	23	122	50-150		07/27/2022 19:29

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	13	66	25-150		07/27/2022 19:29
13C5 PFPeA	20	15	78	25-150		07/27/2022 19:29
13C3 PFBS	18	22	118	25-150	D	08/03/2022 03:11
13C2 4:2FTS	19	48	258	25-150	R	07/27/2022 19:29
13C5 PFHxA	20	21	105	25-150		07/27/2022 19:29
13C4 PFHpA	20	22	112	25-150		07/27/2022 19:29
13C3 PFHxS	19	23	122	25-150		07/27/2022 19:29
13C2 6:2FTS	19	44	236	25-150	R	07/27/2022 19:29
13C8 PFOA	20	24	120	25-150		07/27/2022 19:29
13C9 PFNA	20	25	125	25-150		07/27/2022 19:29
13C8 PFOS	19	25	134	25-150	D	08/03/2022 03:11
13C2 8:2FTS	19	39	204	25-150	R	07/27/2022 19:29
13C6 PFDA	20	22	113	25-150		07/27/2022 19:29
d3-MeFOSAA	20	26	132	25-150		07/27/2022 19:29
13C8 PFOSA	20	9.6	49	25-150		07/27/2022 19:29
d5-EtFOSAA	20	24	121	25-150		07/27/2022 19:29
13C7 PFUdA	20	24	123	25-150		07/27/2022 19:29
13C2 PFDoA	20	25	125	25-150		07/27/2022 19:29
13C2 PFTeDA	20	14	72	25-150		07/27/2022 19:29
13C3 HFPO-DA	20	16	82	25-150		07/27/2022 19:29
d7-N-MeFOSE	20	3.9	20	10-150		07/27/2022 19:29
d9-N-EtFOSE	20	3.4	17	10-150		07/27/2022 19:29
d3-N-MeFOSA	20	0.056	0	10-150	R	07/27/2022 19:29
d5-N-EtFOSA	20	0.053	0	10-150	R	07/27/2022 19:29

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW-17	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647007-R	Total Amount Extracted	253mL
Lab File ID	B220727B_014	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 10:40	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.77	5.71	1113		07/27/2022 19:29
13C4 PFOA	N/A	N/A	7.04	6.96	1839		07/27/2022 19:29
13C2 PFDA	N/A	N/A	8.36	8.27	1537		07/27/2022 19:29
13C4 PFOS	N/A	N/A	8.82	8.75	726		07/27/2022 19:29

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	1935		07/27/2022 19:29
13C5 PFPeA	N/A	N/A	5.12	5.13	1233		07/27/2022 19:29
13C3 PFBS	N/A	N/A	6.04	5.96	228	D	08/03/2022 03:11
13C2 4:2FTS	N/A	N/A	5.51	5.49	101	R	07/27/2022 19:29
13C5 PFHxA	N/A	N/A	5.78	5.81	716		07/27/2022 19:29
13C4 PFHpA	N/A	N/A	6.41	6.39	1260		07/27/2022 19:29
13C3 PFHxS	N/A	N/A	7.45	7.45	573		07/27/2022 19:29
13C2 6:2FTS	N/A	N/A	6.71	6.72	265	R	07/27/2022 19:29
13C8 PFOA	N/A	N/A	7.04	7.05	1627		07/27/2022 19:29
13C9 PFNA	N/A	N/A	7.70	7.70	1613		07/27/2022 19:29
13C8 PFOS	N/A	N/A	8.87	8.80	653	D	08/03/2022 03:11
13C2 8:2FTS	N/A	N/A	7.98	7.98	528	R	07/27/2022 19:29
13C6 PFDA	N/A	N/A	8.36	8.35	1432		07/27/2022 19:29
d3-MeFOSAA	N/A	N/A	8.23	8.22	1777		07/27/2022 19:29
13C8 PFOSA	N/A	N/A	10.55	10.56	1388		07/27/2022 19:29
d5-EtFOSAA	N/A	N/A	8.51	8.51	1158		07/27/2022 19:29
13C7 PFUdA	N/A	N/A	9.03	9.02	1919		07/27/2022 19:29
13C2 PFDoA	N/A	N/A	9.70	9.69	1247		07/27/2022 19:29
13C2 PFTeDA	N/A	N/A	11.01	10.98	1243		07/27/2022 19:29
13C3 HFPO-DA	N/A	N/A	6.04	6.04	1347		07/27/2022 19:29
d7-N-MeFOSE	N/A	N/A	12.35	12.34	51		07/27/2022 19:29
d9-N-EtFOSE	N/A	N/A	12.82	12.84	59		07/27/2022 19:29
d3-N-MeFOSA	N/A	N/A	12.56	12.56	51	R	07/27/2022 19:29
d5-N-EtFOSA	N/A	N/A	12.97	13.01	51	R	07/27/2022 19:29

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW-17	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647007-R	Total Amount Extracted	253mL
Lab File ID	B220727B_014	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 10:40	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.29	4.31	181		07/27/2022 19:29
PFPeA	N/A	N/A	5.13	5.12	83		07/27/2022 19:29
HFPO-DA	1.10	0.28	6.05	6.02	ND		07/27/2022 19:29
PFBS	0.50	0.43	6.05	5.99	397	D	08/03/2022 03:11
PFHxA	0.07	0.08	5.78	5.75	48		07/27/2022 19:29
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 19:29
PFPeS	0.43	0.41	6.75	6.73	ND		07/27/2022 19:29
PFHpA	0.28	0.32	6.42	6.39	28		07/27/2022 19:29
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 19:29
PFHxS	0.29	0.39	7.45	7.43	92	J	07/27/2022 19:29
PFOA	0.40	0.39	7.05	7.03	122		07/27/2022 19:29
6:2 FTS	0.85	0.76	6.71	6.72	ND		07/27/2022 19:29
PFHpS	0.35	0.42	8.15	8.13	57	J	07/27/2022 19:29
PFNA	0.13	0.13	7.70	7.67	244		07/27/2022 19:29
PFOSAm	N/A	N/A	10.57	10.51	ND		07/27/2022 19:29
PFOS	0.39	0.36	8.88	8.81	464	D	08/03/2022 03:11
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 19:29
PFDA	0.21	0.18	8.37	8.34	425		07/27/2022 19:29
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 19:29
8:2 FTS	0.00	0.97	0.00	7.95	ND		07/27/2022 19:29
9-CI-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 19:29
PFNS	1.10	0.55	9.51	9.52	ND		07/27/2022 19:29
PFUnDA	0.11	0.13	9.02	9.01	ND		07/27/2022 19:29
NMeFOSAA	0.00	0.95	0.00	8.35	ND		07/27/2022 19:29
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 19:29
PFDS	0.00	0.37	0.00	10.16	ND		07/27/2022 19:29
PFDOA	0.00	0.18	0.00	9.69	ND		07/27/2022 19:29
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 19:29
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 19:29
11-CI-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 19:29
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 19:29
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 19:29
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 19:29

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-16	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647008	Total Amount Extracted	265mL
Lab File ID	B220707A_020	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 11:45	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	10	1.9	0.42	0.42	1	375-22-4		07/07/2022 18:55
PFPeA	9.7	1.9	0.41	0.41	1	2706-90-3		07/07/2022 18:55
HFPO-DA	ND	1.9	0.50	0.50	1	13252-13-6		07/07/2022 18:55
PFBS	27	1.7	0.45	0.45	1	375-73-5		07/07/2022 18:55
PFHxA	3.5	1.9	0.41	0.41	1	307-24-4		07/07/2022 18:55
4:2 FTS	ND	1.8	0.53	0.53	1	757124-72-4		07/07/2022 18:55
PFPeS	ND	1.8	0.45	0.45	1	2706-91-4		07/07/2022 18:55
PFHpA	1.5 J	1.9	0.52	0.52	1	375-85-9		07/07/2022 18:55
DONA	ND	1.8	0.49	0.49	1	919005-14-4		07/07/2022 18:55
PFHxS	ND	1.7	0.48	0.48	1	355-46-4		07/07/2022 18:55
PFOA	1.8 J	1.9	0.55	0.55	1	335-67-1		07/07/2022 18:55
6:2 FTS	ND	1.8	0.61	0.61	1	27619-97-2		07/07/2022 18:55
PFHpS	ND	1.8	0.39	0.39	1	375-92-8		07/07/2022 18:55
PFNA	ND	1.9	0.70	0.70	1	375-95-1		07/07/2022 18:55
PFOSAm	ND	1.9	0.77	0.77	1	754-91-6		07/07/2022 18:55
PFOS	2.7	1.7	0.52	0.52	1	1763-23-1		07/07/2022 18:55
MeFOSA	ND	1.9	0.48	0.48	1	31506-32-8		07/07/2022 18:55
PFDA	ND	1.9	0.53	0.53	1	335-76-2		07/07/2022 18:55
EtFOSAm	ND	1.9	0.57	0.57	1	4151-50-2		07/07/2022 18:55
8:2 FTS	ND	1.8	0.62	0.62	1	39108-34-4		07/07/2022 18:55
9-CI-PF3ON	ND	1.8	0.29	0.29	1	756426-58-1		07/07/2022 18:55
PFNS	ND	1.8	0.42	0.42	1	68259-12-1		07/07/2022 18:55
PFUnDA	ND	1.9	0.51	0.51	1	2058-94-8		07/07/2022 18:55
NMeFOSAA	ND	1.9	0.41	0.41	1	2355-31-9		07/07/2022 18:55
NEtFOSAA	ND	1.9	0.52	0.52	1	2991-50-6		07/07/2022 18:55
PFDS	ND	1.8	0.42	0.42	1	335-77-3		07/07/2022 18:55
PFDOA	ND	1.9	0.46	0.46	1	307-55-1		07/07/2022 18:55
MeFOSE	ND	1.9	0.31	0.31	1	24448-09-7		07/07/2022 18:55
EtFOSE	ND	1.9	0.47	0.47	1	1691-99-2		07/07/2022 18:55
11-CI-PF3OUdS	ND	1.8	0.41	0.41	1	763051-92-9		07/07/2022 18:55
PFTTrDA	ND	1.9	0.59	0.59	1	72629-94-8		07/07/2022 18:55
PFDoS	ND	1.8	0.43	0.43	1	79780-39-5		07/07/2022 18:55
PFTDA	ND	1.9	0.45	0.45	1	376-06-7		07/07/2022 18:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-16	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647008	Total Amount Extracted	265mL
Lab File ID	B220707A_020	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 11:45	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	18	96	50-150		07/07/2022 18:55
13C4 PFOA	19	17	90	50-150		07/07/2022 18:55
13C2 PFDA	19	19	103	50-150		07/07/2022 18:55
13C4 PFOS	18	17	97	50-150		07/07/2022 18:55

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	18	98	25-150		07/07/2022 18:55
13C5 PFPeA	19	20	106	25-150		07/07/2022 18:55
13C3 PFBS	18	18	104	25-150		07/07/2022 18:55
13C2 4:2FTS	18	26	146	25-150		07/07/2022 18:55
13C5 PFHxA	19	20	104	25-150		07/07/2022 18:55
13C4 PFHpA	19	22	116	25-150		07/07/2022 18:55
13C3 PFHxS	18	19	107	25-150		07/07/2022 18:55
13C2 6:2FTS	18	21	119	25-150		07/07/2022 18:55
13C8 PFOA	19	21	112	25-150		07/07/2022 18:55
13C9 PFNA	19	20	108	25-150		07/07/2022 18:55
13C8 PFOS	18	22	120	25-150		07/07/2022 18:55
13C2 8:2FTS	18	20	109	25-150		07/07/2022 18:55
13C6 PFDA	19	22	115	25-150		07/07/2022 18:55
d3-MeFOSAA	19	21	109	25-150		07/07/2022 18:55
13C8 PFOSA	19	14	77	25-150		07/07/2022 18:55
d5-EtFOSAA	19	17	91	25-150		07/07/2022 18:55
13C7 PFUdA	19	23	120	25-150		07/07/2022 18:55
13C2 PFDaA	19	21	109	25-150		07/07/2022 18:55
13C2 PFTeDA	19	17	92	25-150		07/07/2022 18:55
13C3 HFPO-DA	19	19	101	25-150		07/07/2022 18:55
d7-N-MeFOSE	19	9.0	48	10-150		07/07/2022 18:55
d9-N-EtFOSE	19	8.1	43	10-150		07/07/2022 18:55
d3-N-MeFOSA	19	1.7	9	10-150	R	07/07/2022 18:55
d5-N-EtFOSA	19	1.5	8	10-150	R	07/07/2022 18:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-16	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647008	Total Amount Extracted	265mL
Lab File ID	B220707A_020	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 11:45	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.78	5.81	1303		07/07/2022 18:55
13C4 PFOA	N/A	N/A	7.14	7.17	2218		07/07/2022 18:55
13C2 PFDA	N/A	N/A	8.54	8.54	2786		07/07/2022 18:55
13C4 PFOS	N/A	N/A	9.03	9.01	2218		07/07/2022 18:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.30	4.32	2289		07/07/2022 18:55
13C5 PFPeA	N/A	N/A	5.09	5.12	1471		07/07/2022 18:55
13C3 PFBS	N/A	N/A	6.04	6.06	728		07/07/2022 18:55
13C2 4:2FTS	N/A	N/A	5.49	5.52	216		07/07/2022 18:55
13C5 PFHxA	N/A	N/A	5.78	5.81	1093		07/07/2022 18:55
13C4 PFHpA	N/A	N/A	6.46	6.49	1723		07/07/2022 18:55
13C3 PFHxS	N/A	N/A	7.57	7.59	1472		07/07/2022 18:55
13C2 6:2FTS	N/A	N/A	6.79	6.82	479		07/07/2022 18:55
13C8 PFOA	N/A	N/A	7.14	7.17	2448		07/07/2022 18:55
13C9 PFNA	N/A	N/A	7.83	7.85	2479		07/07/2022 18:55
13C8 PFOS	N/A	N/A	9.03	9.01	2887		07/07/2022 18:55
13C2 8:2FTS	N/A	N/A	8.14	8.15	2921		07/07/2022 18:55
13C6 PFDA	N/A	N/A	8.54	8.54	1593		07/07/2022 18:55
d3-MeFOSAA	N/A	N/A	8.40	8.40	3555		07/07/2022 18:55
13C8 PFOSA	N/A	N/A	10.84	10.77	4639		07/07/2022 18:55
d5-EtFOSAA	N/A	N/A	8.72	8.71	858		07/07/2022 18:55
13C7 PFUdA	N/A	N/A	9.24	9.22	4151		07/07/2022 18:55
13C2 PFDoA	N/A	N/A	9.93	9.90	1717		07/07/2022 18:55
13C2 PFTeDA	N/A	N/A	11.26	11.21	2460		07/07/2022 18:55
13C3 HFPO-DA	N/A	N/A	6.06	6.09	1333		07/07/2022 18:55
d7-N-MeFOSE	N/A	N/A	12.54	12.49	440		07/07/2022 18:55
d9-N-EtFOSE	N/A	N/A	13.00	12.96	596		07/07/2022 18:55
d3-N-MeFOSA	N/A	N/A	12.75	12.70	790	R	07/07/2022 18:55
d5-N-EtFOSA	N/A	N/A	13.16	13.11	588	R	07/07/2022 18:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	PZ-16	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647008	Total Amount Extracted	265mL
Lab File ID	B220707A_020	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 11:45	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.31	4.33	206		07/07/2022 18:55
PFPeA	N/A	N/A	5.10	5.12	210		07/07/2022 18:55
HFPO-DA	0.47	0.28	6.07	6.10	ND		07/07/2022 18:55
PFBS	0.43	0.41	6.04	6.07	450		07/07/2022 18:55
PFHxA	0.09	0.09	5.79	5.82	103		07/07/2022 18:55
4:2 FTS	0.00	0.88	0.00	5.53	ND		07/07/2022 18:55
PFPeS	0.53	0.40	6.83	6.86	ND		07/07/2022 18:55
PFHpA	0.29	0.32	6.47	6.50	22	J	07/07/2022 18:55
DONA	0.00	0.61	0.00	6.75	ND		07/07/2022 18:55
PFHxS	0.47	0.36	7.58	7.60	ND		07/07/2022 18:55
PFOA	0.38	0.40	7.15	7.18	121	J	07/07/2022 18:55
6:2 FTS	0.93	0.83	6.79	6.82	ND		07/07/2022 18:55
PFHpS	0.82	0.42	8.32	8.32	ND		07/07/2022 18:55
PFNA	0.11	0.14	7.85	7.86	ND		07/07/2022 18:55
PFOSAm	N/A	N/A	10.84	10.78	ND		07/07/2022 18:55
PFOS	0.34	0.41	8.97	9.03	158		07/07/2022 18:55
MeFOSA	0.00	0.62	0.00	12.73	ND		07/07/2022 18:55
PFDA	0.09	0.19	8.55	8.58	ND		07/07/2022 18:55
EtFOSAm	0.00	0.60	0.00	13.10	ND		07/07/2022 18:55
8:2 FTS	0.00	0.97	0.00	8.15	ND		07/07/2022 18:55
9-CI-PF3ON	0.00	0.06	0.00	9.52	ND		07/07/2022 18:55
PFNS	0.00	0.49	0.00	9.74	ND		07/07/2022 18:55
PFUnDA	0.00	0.13	0.00	9.22	ND		07/07/2022 18:55
NMeFOSAA	0.00	0.84	0.00	8.41	ND		07/07/2022 18:55
NEtFOSAA	0.00	0.67	0.00	8.72	ND		07/07/2022 18:55
PFDS	0.00	0.34	0.00	10.41	ND		07/07/2022 18:55
PFDOA	0.00	0.17	0.00	9.92	ND		07/07/2022 18:55
MeFOSE	N/A	N/A	0.00	12.52	ND		07/07/2022 18:55
EtFOSE	0.00	0.00	0.00	12.99	ND		07/07/2022 18:55
11-CI-PF3OUdS	0.00	0.02	0.00	10.87	ND		07/07/2022 18:55
PFTTrDA	0.00	0.15	0.00	10.59	ND		07/07/2022 18:55
PFDoS	0.00	0.47	0.00	11.61	ND		07/07/2022 18:55
PFTDA	0.00	0.25	0.00	11.21	ND		07/07/2022 18:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW18	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647009	Total Amount Extracted	258mL
Lab File ID	B220707A_021	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 12:55	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	15	1.9	0.43	0.43	1	375-22-4		07/07/2022 19:15
PFPeA	9.0	1.9	0.42	0.42	1	2706-90-3		07/07/2022 19:15
HFPO-DA	ND	1.9	0.51	0.51	1	13252-13-6		07/07/2022 19:15
PFBS	28	1.7	0.46	0.46	1	375-73-5		07/07/2022 19:15
PFHxA	6.5	1.9	0.42	0.42	1	307-24-4		07/07/2022 19:15
4:2 FTS	ND	1.8	0.54	0.54	1	757124-72-4		07/07/2022 19:15
PFPeS	9.2	1.8	0.46	0.46	1	2706-91-4		07/07/2022 19:15
PFHpA	7.9	1.9	0.53	0.53	1	375-85-9		07/07/2022 19:15
DONA	ND	1.8	0.50	0.50	1	919005-14-4		07/07/2022 19:15
PFHxS	51	1.8	0.49	0.49	1	355-46-4		07/07/2022 19:15
PFOA	26	1.9	0.57	0.57	1	335-67-1		07/07/2022 19:15
6:2 FTS	2.1	1.8	0.62	0.62	1	27619-97-2		07/07/2022 19:15
PFHpS	7.2	1.8	0.40	0.40	1	375-92-8		07/07/2022 19:15
PFNA	ND	1.9	0.72	0.72	1	375-95-1		07/07/2022 19:15
PFOSAm	ND	1.9	0.79	0.79	1	754-91-6		07/07/2022 19:15
PFOS	140	1.8	0.53	0.53	1	1763-23-1		07/07/2022 19:15
MeFOSA	ND	1.9	0.49	0.49	1	31506-32-8		07/07/2022 19:15
PFDA	ND	1.9	0.55	0.55	1	335-76-2		07/07/2022 19:15
EtFOSAm	ND	1.9	0.59	0.59	1	4151-50-2		07/07/2022 19:15
8:2 FTS	ND	1.9	0.63	0.63	1	39108-34-4		07/07/2022 19:15
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/07/2022 19:15
PFNS	ND	1.9	0.43	0.43	1	68259-12-1		07/07/2022 19:15
PFUnDA	ND	1.9	0.52	0.52	1	2058-94-8		07/07/2022 19:15
NMeFOSAA	ND	1.9	0.42	0.42	1	2355-31-9		07/07/2022 19:15
NEtFOSAA	ND	1.9	0.54	0.54	1	2991-50-6		07/07/2022 19:15
PFDS	ND	1.9	0.44	0.44	1	335-77-3		07/07/2022 19:15
PFDOA	ND	1.9	0.47	0.47	1	307-55-1		07/07/2022 19:15
MeFOSE	ND	1.9	0.32	0.32	1	24448-09-7		07/07/2022 19:15
EtFOSE	ND	1.9	0.48	0.48	1	1691-99-2		07/07/2022 19:15
11-CI-PF3OUdS	ND	1.8	0.42	0.42	1	763051-92-9		07/07/2022 19:15
PFTTrDA	ND	1.9	0.60	0.60	1	72629-94-8		07/07/2022 19:15
PFDoS	ND	1.9	0.45	0.45	1	79780-39-5		07/07/2022 19:15
PFTDA	ND	1.9	0.46	0.46	1	376-06-7		07/07/2022 19:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW18	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647009	Total Amount Extracted	258mL
Lab File ID	B220707A_021	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 12:55	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	17	86	50-150		07/07/2022 19:15
13C4 PFOA	19	16	82	50-150		07/07/2022 19:15
13C2 PFDA	19	16	82	50-150		07/07/2022 19:15
13C4 PFOS	19	15	81	50-150		07/07/2022 19:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	15	77	25-150		07/07/2022 19:15
13C5 PFPeA	19	18	91	25-150		07/07/2022 19:15
13C3 PFBS	18	16	90	25-150		07/07/2022 19:15
13C2 4:2FTS	18	23	130	25-150		07/07/2022 19:15
13C5 PFHxA	19	18	91	25-150		07/07/2022 19:15
13C4 PFHpA	19	20	103	25-150		07/07/2022 19:15
13C3 PFHxS	18	16	87	25-150		07/07/2022 19:15
13C2 6:2FTS	18	20	108	25-150		07/07/2022 19:15
13C8 PFOA	19	18	95	25-150		07/07/2022 19:15
13C9 PFNA	19	18	93	25-150		07/07/2022 19:15
13C8 PFOS	19	17	93	25-150		07/07/2022 19:15
13C2 8:2FTS	19	15	81	25-150		07/07/2022 19:15
13C6 PFDA	19	18	95	25-150		07/07/2022 19:15
d3-MeFOSAA	19	15	79	25-150		07/07/2022 19:15
13C8 PFOSA	19	8.4	43	25-150		07/07/2022 19:15
d5-EtFOSAA	19	12	64	25-150		07/07/2022 19:15
13C7 PFUdA	19	17	86	25-150		07/07/2022 19:15
13C2 PFDaA	19	15	78	25-150		07/07/2022 19:15
13C2 PFTeDA	19	10.0	52	25-150		07/07/2022 19:15
13C3 HFPO-DA	19	17	88	25-150		07/07/2022 19:15
d7-N-MeFOSE	19	4.9	25	10-150		07/07/2022 19:15
d9-N-EtFOSE	19	4.7	24	10-150		07/07/2022 19:15
d3-N-MeFOSA	19	0.041	0	10-150	R	07/07/2022 19:15
d5-N-EtFOSA	19	0.037	0	10-150	R	07/07/2022 19:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW18	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647009	Total Amount Extracted	258mL
Lab File ID	B220707A_021	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 12:55	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.78	5.81	1618		07/07/2022 19:15
13C4 PFOA	N/A	N/A	7.15	7.17	2272		07/07/2022 19:15
13C2 PFDA	N/A	N/A	8.54	8.54	2479		07/07/2022 19:15
13C4 PFOS	N/A	N/A	9.03	9.01	1820		07/07/2022 19:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.30	4.32	2404		07/07/2022 19:15
13C5 PFPeA	N/A	N/A	5.10	5.12	1404		07/07/2022 19:15
13C3 PFBS	N/A	N/A	6.04	6.06	490		07/07/2022 19:15
13C2 4:2FTS	N/A	N/A	5.50	5.52	171		07/07/2022 19:15
13C5 PFHxA	N/A	N/A	5.78	5.81	1071		07/07/2022 19:15
13C4 PFHpA	N/A	N/A	6.47	6.49	1756		07/07/2022 19:15
13C3 PFHxS	N/A	N/A	7.57	7.59	1561		07/07/2022 19:15
13C2 6:2FTS	N/A	N/A	6.80	6.82	442		07/07/2022 19:15
13C8 PFOA	N/A	N/A	7.15	7.17	2491		07/07/2022 19:15
13C9 PFNA	N/A	N/A	7.84	7.85	2267		07/07/2022 19:15
13C8 PFOS	N/A	N/A	9.03	9.01	2689		07/07/2022 19:15
13C2 8:2FTS	N/A	N/A	8.14	8.15	1076		07/07/2022 19:15
13C6 PFDA	N/A	N/A	8.54	8.54	2289		07/07/2022 19:15
d3-MeFOSAA	N/A	N/A	8.41	8.40	2390		07/07/2022 19:15
13C8 PFOSA	N/A	N/A	10.84	10.77	4743		07/07/2022 19:15
d5-EtFOSAA	N/A	N/A	8.71	8.71	1340		07/07/2022 19:15
13C7 PFUdA	N/A	N/A	9.24	9.22	2320		07/07/2022 19:15
13C2 PFDoA	N/A	N/A	9.93	9.90	1251		07/07/2022 19:15
13C2 PFTeDA	N/A	N/A	11.26	11.21	2426		07/07/2022 19:15
13C3 HFPO-DA	N/A	N/A	6.06	6.09	1418		07/07/2022 19:15
d7-N-MeFOSE	N/A	N/A	12.54	12.49	312		07/07/2022 19:15
d9-N-EtFOSE	N/A	N/A	13.00	12.96	421		07/07/2022 19:15
d3-N-MeFOSA	N/A	N/A	12.75	12.70	36	R	07/07/2022 19:15
d5-N-EtFOSA	N/A	N/A	13.16	13.16	24	R	07/07/2022 19:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	MW18	Extraction Date	07/06/2022 12:06
Lab Sample ID	40246647009	Total Amount Extracted	258mL
Lab File ID	B220707A_021	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220629A02
Collected	06/15/2022 12:55	CCal File	B220707A_019
Received	06/17/2022 10:00	Ending CCal File	B220707A_030
		Blank File	B220707A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.31	4.33	188		07/07/2022 19:15
PFPeA	N/A	N/A	5.10	5.12	190		07/07/2022 19:15
HFPO-DA	0.18	0.28	6.08	6.10	ND		07/07/2022 19:15
PFBS	0.45	0.41	6.05	6.07	442		07/07/2022 19:15
PFHxA	0.08	0.09	5.79	5.82	118		07/07/2022 19:15
4:2 FTS	0.00	0.88	0.00	5.53	ND		07/07/2022 19:15
PFPeS	0.48	0.40	6.83	6.86	262		07/07/2022 19:15
PFHpA	0.29	0.32	6.48	6.50	17		07/07/2022 19:15
DONA	0.00	0.61	0.00	6.75	ND		07/07/2022 19:15
PFHxS	0.44	0.36	7.58	7.60	965		07/07/2022 19:15
PFOA	0.41	0.40	7.15	7.18	267		07/07/2022 19:15
6:2 FTS	1.10	0.83	6.80	6.82	333		07/07/2022 19:15
PFHpS	0.52	0.42	8.32	8.32	158		07/07/2022 19:15
PFNA	0.12	0.14	7.84	7.86	ND		07/07/2022 19:15
PFOSAm	N/A	N/A	10.84	10.78	ND		07/07/2022 19:15
PFOS	0.42	0.41	8.96	9.03	227		07/07/2022 19:15
MeFOSA	0.00	0.62	0.00	12.73	ND		07/07/2022 19:15
PFDA	0.00	0.19	0.00	8.58	ND		07/07/2022 19:15
EtFOSAm	0.00	0.60	0.00	13.10	ND		07/07/2022 19:15
8:2 FTS	0.00	0.97	0.00	8.15	ND		07/07/2022 19:15
9-CI-PF3ON	0.00	0.06	0.00	9.52	ND		07/07/2022 19:15
PFNS	0.00	0.49	0.00	9.74	ND		07/07/2022 19:15
PFUnDA	0.00	0.13	0.00	9.22	ND		07/07/2022 19:15
NMeFOSAA	0.00	0.84	0.00	8.41	ND		07/07/2022 19:15
NEtFOSAA	0.00	0.67	0.00	8.72	ND		07/07/2022 19:15
PFDS	0.00	0.34	0.00	10.41	ND		07/07/2022 19:15
PFDOA	0.00	0.17	0.00	9.92	ND		07/07/2022 19:15
MeFOSE	N/A	N/A	0.00	12.52	ND		07/07/2022 19:15
EtFOSE	0.00	0.00	0.00	12.99	ND		07/07/2022 19:15
11-CI-PF3OUdS	0.00	0.02	0.00	10.87	ND		07/07/2022 19:15
PFTTrDA	0.00	0.15	0.00	10.59	ND		07/07/2022 19:15
PFDoS	0.00	0.47	0.00	11.61	ND		07/07/2022 19:15
PFTDA	0.00	0.25	0.00	11.21	ND		07/07/2022 19:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW26	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647010-R	Total Amount Extracted	250mL
Lab File ID	B220727B_015	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 16:25	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	9.8	2.0	0.44	0.44	1	375-22-4		07/27/2022 19:49
PFPeA	21	2.0	0.44	0.44	1	2706-90-3		07/27/2022 19:49
HFPO-DA	ND	2.0	0.53	0.53	1	13252-13-6		07/27/2022 19:49
PFBS	94	1.8	0.47	0.47	1	375-73-5		07/27/2022 19:49
PFHxA	20	2.0	0.44	0.44	1	307-24-4		07/27/2022 19:49
4:2 FTS	ND	1.9	0.56	0.56	1	757124-72-4		07/27/2022 19:49
PFPeS	7.6	1.9	0.47	0.47	1	2706-91-4		07/27/2022 19:49
PFHpA	19	2.0	0.55	0.55	1	375-85-9		07/27/2022 19:49
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 19:49
PFHxS	93	1.8	0.51	0.51	1	355-46-4		07/27/2022 19:49
PFOA	71	2.0	0.58	0.58	1	335-67-1		07/27/2022 19:49
6:2 FTS	34 I	1.9	0.64	0.64	1	27619-97-2		07/27/2022 19:49
PFHpS	38	1.9	0.41	0.41	1	375-92-8		07/27/2022 19:49
PFNA	6.7	2.0	0.74	0.74	1	375-95-1		07/27/2022 19:49
PFOSAm	ND	2.0	0.82	0.82	1	754-91-6		07/27/2022 19:49
PFOS	210 D	3.7	1.1	1.1	2	1763-23-1		08/03/2022 03:31
MeFOSA	ND	2.0	0.51	0.51	1	31506-32-8		07/27/2022 19:49
PFDA	ND	2.0	0.56	0.56	1	335-76-2		07/27/2022 19:49
EtFOSAm	ND	2.0	0.61	0.61	1	4151-50-2		07/27/2022 19:49
8:2 FTS	5.5	1.9	0.65	0.65	1	39108-34-4		07/27/2022 19:49
9-CI-PF3ON	ND	1.9	0.30	0.30	1	756426-58-1		07/27/2022 19:49
PFNS	ND	1.9	0.45	0.45	1	68259-12-1		07/27/2022 19:49
PFUnDA	ND	2.0	0.54	0.54	1	2058-94-8		07/27/2022 19:49
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 19:49
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		07/27/2022 19:49
PFDS	ND	1.9	0.45	0.45	1	335-77-3		07/27/2022 19:49
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 19:49
MeFOSE	ND	2.0	0.33	0.33	1	24448-09-7		07/27/2022 19:49
EtFOSE	ND	2.0	0.50	0.50	1	1691-99-2		07/27/2022 19:49
11-CI-PF3OUdS	ND	1.9	0.44	0.44	1	763051-92-9		07/27/2022 19:49
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		07/27/2022 19:49
PFDoS	ND	1.9	0.46	0.46	1	79780-39-5		07/27/2022 19:49
PFTDA	ND	2.0	0.48	0.48	1	376-06-7		07/27/2022 19:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW26	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647010-R	Total Amount Extracted	250mL
Lab File ID	B220727B_015	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 16:25	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	17	85	50-150		07/27/2022 19:49
13C4 PFOA	20	22	111	50-150		07/27/2022 19:49
13C2 PFDA	20	27	137	50-150		07/27/2022 19:49
13C4 PFOS	19	22	116	50-150		07/27/2022 19:49

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	12	58	25-150		07/27/2022 19:49
13C5 PFPeA	20	15	77	25-150		07/27/2022 19:49
13C3 PFBS	19	20	108	25-150		07/27/2022 19:49
13C2 4:2FTS	19	27	144	25-150		07/27/2022 19:49
13C5 PFHxA	20	19	95	25-150		07/27/2022 19:49
13C4 PFHpA	20	20	102	25-150		07/27/2022 19:49
13C3 PFHxS	19	23	123	25-150		07/27/2022 19:49
13C2 6:2FTS	19	39	206	25-150	R	07/27/2022 19:49
13C8 PFOA	20	23	115	25-150		07/27/2022 19:49
13C9 PFNA	20	25	123	25-150		07/27/2022 19:49
13C8 PFOS	19	27	143	25-150	D	08/03/2022 03:31
13C2 8:2FTS	19	28	146	25-150		07/27/2022 19:49
13C6 PFDA	20	22	111	25-150		07/27/2022 19:49
d3-MeFOSAA	20	20	101	25-150		07/27/2022 19:49
13C8 PFOSA	20	18	92	25-150		07/27/2022 19:49
d5-EtFOSAA	20	16	82	25-150		07/27/2022 19:49
13C7 PFUdA	20	20	101	25-150		07/27/2022 19:49
13C2 PFDoA	20	22	110	25-150		07/27/2022 19:49
13C2 PFTeDA	20	13	67	25-150		07/27/2022 19:49
13C3 HFPO-DA	20	17	85	25-150		07/27/2022 19:49
d7-N-MeFOSE	20	14	69	10-150		07/27/2022 19:49
d9-N-EtFOSE	20	12	61	10-150		07/27/2022 19:49
d3-N-MeFOSA	20	9.1	46	10-150		07/27/2022 19:49
d5-N-EtFOSA	20	8.0	40	10-150		07/27/2022 19:49

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW26	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647010-R	Total Amount Extracted	250mL
Lab File ID	B220727B_015	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 16:25	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.79	5.71	1139		07/27/2022 19:49
13C4 PFOA	N/A	N/A	7.05	6.96	1969		07/27/2022 19:49
13C2 PFDA	N/A	N/A	8.38	8.27	2492		07/27/2022 19:49
13C4 PFOS	N/A	N/A	8.84	8.75	580		07/27/2022 19:49

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.28	4.30	1453		07/27/2022 19:49
13C5 PFPeA	N/A	N/A	5.13	5.13	844		07/27/2022 19:49
13C3 PFBS	N/A	N/A	6.02	5.96	183		07/27/2022 19:49
13C2 4:2FTS	N/A	N/A	5.53	5.49	99		07/27/2022 19:49
13C5 PFHxA	N/A	N/A	5.79	5.81	711		07/27/2022 19:49
13C4 PFHpA	N/A	N/A	6.42	6.39	1411		07/27/2022 19:49
13C3 PFHxS	N/A	N/A	7.46	7.45	478		07/27/2022 19:49
13C2 6:2FTS	N/A	N/A	6.72	6.72	238	R	07/27/2022 19:49
13C8 PFOA	N/A	N/A	7.05	7.05	1701		07/27/2022 19:49
13C9 PFNA	N/A	N/A	7.71	7.70	1941		07/27/2022 19:49
13C8 PFOS	N/A	N/A	8.86	8.80	666	D	08/03/2022 03:31
13C2 8:2FTS	N/A	N/A	8.00	7.98	659		07/27/2022 19:49
13C6 PFDA	N/A	N/A	8.38	8.35	1999		07/27/2022 19:49
d3-MeFOSAA	N/A	N/A	8.24	8.22	1656		07/27/2022 19:49
13C8 PFOSA	N/A	N/A	10.55	10.56	1557		07/27/2022 19:49
d5-EtFOSAA	N/A	N/A	8.53	8.51	1259		07/27/2022 19:49
13C7 PFUdA	N/A	N/A	9.04	9.02	2074		07/27/2022 19:49
13C2 PFDoA	N/A	N/A	9.71	9.69	1323		07/27/2022 19:49
13C2 PFTeDA	N/A	N/A	11.02	10.98	1539		07/27/2022 19:49
13C3 HFPO-DA	N/A	N/A	6.05	6.04	1072		07/27/2022 19:49
d7-N-MeFOSE	N/A	N/A	12.38	12.34	51		07/27/2022 19:49
d9-N-EtFOSE	N/A	N/A	12.85	12.84	199		07/27/2022 19:49
d3-N-MeFOSA	N/A	N/A	12.59	12.56	969		07/27/2022 19:49
d5-N-EtFOSA	N/A	N/A	13.01	13.01	637		07/27/2022 19:49

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW26	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647010-R	Total Amount Extracted	250mL
Lab File ID	B220727B_015	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 16:25	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.28	4.31	23		07/27/2022 19:49
PFPeA	N/A	N/A	5.14	5.12	131		07/27/2022 19:49
HFPO-DA	1.60	0.28	6.06	6.02	ND		07/27/2022 19:49
PFBS	0.48	0.48	6.03	5.99	279		07/27/2022 19:49
PFHxA	0.07	0.08	5.80	5.75	124		07/27/2022 19:49
4:2 FTS	1.90	0.80	5.53	5.49	ND		07/27/2022 19:49
PFPeS	0.45	0.41	6.76	6.73	87		07/27/2022 19:49
PFHpA	0.31	0.32	6.42	6.39	23		07/27/2022 19:49
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 19:49
PFHxS	0.46	0.39	7.46	7.43	631		07/27/2022 19:49
PFOA	0.43	0.39	7.06	7.03	418		07/27/2022 19:49
6:2 FTS	1.40	0.76	6.72	6.72	1858	I	07/27/2022 19:49
PFHpS	0.46	0.42	8.17	8.13	163		07/27/2022 19:49
PFNA	0.13	0.13	7.71	7.67	343		07/27/2022 19:49
PFOSAm	N/A	N/A	10.56	10.51	ND		07/27/2022 19:49
PFOS	0.35	0.36	8.66	8.81	356	D	08/03/2022 03:31
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 19:49
PFDA	0.22	0.18	8.39	8.34	ND		07/27/2022 19:49
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 19:49
8:2 FTS	0.90	0.97	8.00	7.95	3409		07/27/2022 19:49
9-Cl-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 19:49
PFNS	0.00	0.55	0.00	9.52	ND		07/27/2022 19:49
PFUnDA	0.00	0.13	0.00	9.01	ND		07/27/2022 19:49
NMeFOSAA	0.78	0.95	8.25	8.35	ND		07/27/2022 19:49
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 19:49
PFDS	0.00	0.37	0.00	10.16	ND		07/27/2022 19:49
PFDOA	0.00	0.18	0.00	9.69	ND		07/27/2022 19:49
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 19:49
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 19:49
11-Cl-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 19:49
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 19:49
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 19:49
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 19:49

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW27	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647011-R	Total Amount Extracted	250mL
Lab File ID	B220727B_016	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 15:20	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	21	2.0	0.44	0.44	1	375-22-4		07/27/2022 20:09
PFPeA	4.2	2.0	0.44	0.44	1	2706-90-3		07/27/2022 20:09
HFPO-DA	ND	2.0	0.53	0.53	1	13252-13-6		07/27/2022 20:09
PFBS	100	1.8	0.47	0.47	1	375-73-5		07/27/2022 20:09
PFHxA	2.5	2.0	0.44	0.44	1	307-24-4		07/27/2022 20:09
4:2 FTS	ND	1.9	0.56	0.56	1	757124-72-4		07/27/2022 20:09
PFPeS	5.2	1.9	0.47	0.47	1	2706-91-4		07/27/2022 20:09
PFHpA	1.9 J	2.0	0.55	0.55	1	375-85-9		07/27/2022 20:09
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 20:09
PFHxS	10	1.8	0.51	0.51	1	355-46-4		07/27/2022 20:09
PFOA	9.8	2.0	0.58	0.58	1	335-67-1		07/27/2022 20:09
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2		07/27/2022 20:09
PFHpS	1.1 J	1.9	0.41	0.41	1	375-92-8		07/27/2022 20:09
PFNA	ND	2.0	0.74	0.74	1	375-95-1		07/27/2022 20:09
PFOSAm	ND	2.0	0.82	0.82	1	754-91-6		07/27/2022 20:09
PFOS	19	1.8	0.55	0.55	1	1763-23-1		07/27/2022 20:09
MeFOSA	ND	2.0	0.51	0.51	1	31506-32-8		07/27/2022 20:09
PFDA	ND	2.0	0.56	0.56	1	335-76-2		07/27/2022 20:09
EtFOSAm	ND	2.0	0.61	0.61	1	4151-50-2		07/27/2022 20:09
8:2 FTS	ND	1.9	0.65	0.65	1	39108-34-4		07/27/2022 20:09
9-CI-PF3ON	ND	1.9	0.30	0.30	1	756426-58-1		07/27/2022 20:09
PFNS	ND	1.9	0.45	0.45	1	68259-12-1		07/27/2022 20:09
PFUnDA	ND	2.0	0.54	0.54	1	2058-94-8		07/27/2022 20:09
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 20:09
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		07/27/2022 20:09
PFDS	ND	1.9	0.45	0.45	1	335-77-3		07/27/2022 20:09
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 20:09
MeFOSE	ND	2.0	0.33	0.33	1	24448-09-7		07/27/2022 20:09
EtFOSE	ND	2.0	0.50	0.50	1	1691-99-2		07/27/2022 20:09
11-CI-PF3OUdS	ND	1.9	0.44	0.44	1	763051-92-9		07/27/2022 20:09
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		07/27/2022 20:09
PFDoS	ND	1.9	0.46	0.46	1	79780-39-5		07/27/2022 20:09
PFTDA	ND	2.0	0.48	0.48	1	376-06-7		07/27/2022 20:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW27	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647011-R	Total Amount Extracted	250mL
Lab File ID	B220727B_016	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 15:20	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	25	123	50-150		07/27/2022 20:09
13C4 PFOA	20	24	119	50-150		07/27/2022 20:09
13C2 PFDA	20	26	132	50-150		07/27/2022 20:09
13C4 PFOS	19	24	126	50-150		07/27/2022 20:09

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	18	89	25-150		07/27/2022 20:09
13C5 PFPeA	20	22	109	25-150		07/27/2022 20:09
13C3 PFBS	19	22	120	25-150		07/27/2022 20:09
13C2 4:2FTS	19	31	164	25-150	R	07/27/2022 20:09
13C5 PFHxA	20	26	132	25-150		07/27/2022 20:09
13C4 PFHpA	20	23	115	25-150		07/27/2022 20:09
13C3 PFHxS	19	24	124	25-150		07/27/2022 20:09
13C2 6:2FTS	19	20	108	25-150		07/27/2022 20:09
13C8 PFOA	20	24	121	25-150		07/27/2022 20:09
13C9 PFNA	20	23	115	25-150		07/27/2022 20:09
13C8 PFOS	19	20	105	25-150		07/27/2022 20:09
13C2 8:2FTS	19	19	98	25-150		07/27/2022 20:09
13C6 PFDA	20	19	96	25-150		07/27/2022 20:09
d3-MeFOSAA	20	19	94	25-150		07/27/2022 20:09
13C8 PFOSA	20	17	84	25-150		07/27/2022 20:09
d5-EtFOSAA	20	16	80	25-150		07/27/2022 20:09
13C7 PFUdA	20	19	93	25-150		07/27/2022 20:09
13C2 PFDaA	20	20	99	25-150		07/27/2022 20:09
13C2 PFTeDA	20	16	79	25-150		07/27/2022 20:09
13C3 HFPO-DA	20	22	112	25-150		07/27/2022 20:09
d7-N-MeFOSE	20	13	67	10-150		07/27/2022 20:09
d9-N-EtFOSE	20	12	62	10-150		07/27/2022 20:09
d3-N-MeFOSA	20	5.5	27	10-150		07/27/2022 20:09
d5-N-EtFOSA	20	5.1	26	10-150		07/27/2022 20:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW27	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647011-R	Total Amount Extracted	250mL
Lab File ID	B220727B_016	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 15:20	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.79	5.71	1204		07/27/2022 20:09
13C4 PFOA	N/A	N/A	7.06	6.96	1726		07/27/2022 20:09
13C2 PFDA	N/A	N/A	8.37	8.27	1668		07/27/2022 20:09
13C4 PFOS	N/A	N/A	8.84	8.75	1619		07/27/2022 20:09

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	2313		07/27/2022 20:09
13C5 PFPeA	N/A	N/A	5.14	5.13	1547		07/27/2022 20:09
13C3 PFBS	N/A	N/A	6.03	5.96	384		07/27/2022 20:09
13C2 4:2FTS	N/A	N/A	5.53	5.49	202	R	07/27/2022 20:09
13C5 PFHxA	N/A	N/A	5.79	5.81	1208		07/27/2022 20:09
13C4 PFHpA	N/A	N/A	6.42	6.39	1943		07/27/2022 20:09
13C3 PFHxS	N/A	N/A	7.46	7.45	1478		07/27/2022 20:09
13C2 6:2FTS	N/A	N/A	6.73	6.72	510		07/27/2022 20:09
13C8 PFOA	N/A	N/A	7.06	7.05	2449		07/27/2022 20:09
13C9 PFNA	N/A	N/A	7.71	7.70	2148		07/27/2022 20:09
13C8 PFOS	N/A	N/A	8.85	8.82	1451		07/27/2022 20:09
13C2 8:2FTS	N/A	N/A	8.00	7.98	1941		07/27/2022 20:09
13C6 PFDA	N/A	N/A	8.38	8.35	1519		07/27/2022 20:09
d3-MeFOSAA	N/A	N/A	8.24	8.22	1932		07/27/2022 20:09
13C8 PFOSA	N/A	N/A	10.55	10.56	1531		07/27/2022 20:09
d5-EtFOSAA	N/A	N/A	8.53	8.51	1059		07/27/2022 20:09
13C7 PFUdA	N/A	N/A	9.04	9.02	2470		07/27/2022 20:09
13C2 PFDoA	N/A	N/A	9.71	9.69	1455		07/27/2022 20:09
13C2 PFTeDA	N/A	N/A	11.02	10.98	856		07/27/2022 20:09
13C3 HFPO-DA	N/A	N/A	6.05	6.04	1607		07/27/2022 20:09
d7-N-MeFOSE	N/A	N/A	12.39	12.34	48		07/27/2022 20:09
d9-N-EtFOSE	N/A	N/A	12.86	12.84	216		07/27/2022 20:09
d3-N-MeFOSA	N/A	N/A	12.61	12.56	1087		07/27/2022 20:09
d5-N-EtFOSA	N/A	N/A	13.02	13.01	710		07/27/2022 20:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW27	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647011-R	Total Amount Extracted	250mL
Lab File ID	B220727B_016	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 15:20	CCal File	B220727B_005
Received	06/17/2022 10:00	Ending CCal File	B220727B_017
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.29	4.31	207		07/27/2022 20:09
PFPeA	N/A	N/A	5.14	5.12	92		07/27/2022 20:09
HFPO-DA	0.40	0.28	6.06	6.02	ND		07/27/2022 20:09
PFBS	0.50	0.48	6.03	5.99	407		07/27/2022 20:09
PFHxA	0.07	0.08	5.80	5.75	85		07/27/2022 20:09
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 20:09
PFPeS	0.49	0.41	6.76	6.73	279		07/27/2022 20:09
PFHpA	0.33	0.32	6.43	6.39	18	J	07/27/2022 20:09
DONA	0.00	0.49	0.00	6.62	ND		07/27/2022 20:09
PFHxS	0.50	0.39	7.47	7.43	431		07/27/2022 20:09
PFOA	0.36	0.39	7.06	7.03	176		07/27/2022 20:09
6:2 FTS	1.10	0.76	6.73	6.72	ND		07/27/2022 20:09
PFHpS	0.47	0.42	8.17	8.13	145	J	07/27/2022 20:09
PFNA	0.13	0.13	7.72	7.67	ND		07/27/2022 20:09
PFOSAm	N/A	N/A	10.55	10.51	ND		07/27/2022 20:09
PFOS	0.35	0.43	8.78	8.81	309		07/27/2022 20:09
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 20:09
PFDA	0.00	0.18	0.00	8.34	ND		07/27/2022 20:09
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 20:09
8:2 FTS	0.00	0.97	0.00	7.95	ND		07/27/2022 20:09
9-CI-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 20:09
PFNS	0.00	0.55	0.00	9.52	ND		07/27/2022 20:09
PFUnDA	0.15	0.13	9.04	9.01	ND		07/27/2022 20:09
NMeFOSAA	1.30	0.95	8.22	8.35	ND		07/27/2022 20:09
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 20:09
PFDS	0.00	0.37	0.00	10.16	ND		07/27/2022 20:09
PFDOA	0.00	0.18	0.00	9.69	ND		07/27/2022 20:09
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 20:09
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 20:09
11-CI-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 20:09
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 20:09
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 20:09
PFTDA	0.00	0.26	0.00	11.00	ND		07/27/2022 20:09

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID TW28
 Lab Sample ID 40246647012-R
 Lab File ID B220727B_018
 Matrix Non_Potable_Water
 Collected 06/15/2022 14:45
 Received 06/17/2022 10:00

Extraction Date 07/25/2022 15:49
 Total Amount Extracted 254mL
 Percent Moisture N/A
 Ical ID 220722B02
 CCal File B220727B_017
 Ending CCal File B220727B_028
 Blank File B220727B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	18	2.0	0.43	0.43	1	375-22-4		07/27/2022 20:49
PFPeA	6.3	2.0	0.43	0.43	1	2706-90-3		07/27/2022 20:49
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6		07/27/2022 20:49
PFBS	140	1.7	0.47	0.47	1	375-73-5		07/27/2022 20:49
PFHxA	3.7	2.0	0.43	0.43	1	307-24-4		07/27/2022 20:49
4:2 FTS	ND	1.8	0.55	0.55	1	757124-72-4		07/27/2022 20:49
PFPeS	4.2	1.9	0.47	0.47	1	2706-91-4		07/27/2022 20:49
PFHpA	2.4	2.0	0.54	0.54	1	375-85-9		07/27/2022 20:49
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 20:49
PFHxS	14	1.8	0.50	0.50	1	355-46-4		07/27/2022 20:49
PFOA	13	2.0	0.58	0.58	1	335-67-1		07/27/2022 20:49
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2		07/27/2022 20:49
PFHpS	1.2 J	1.9	0.41	0.41	1	375-92-8		07/27/2022 20:49
PFNA	ND	2.0	0.73	0.73	1	375-95-1		07/27/2022 20:49
PFOSAm	ND	2.0	0.81	0.81	1	754-91-6		07/27/2022 20:49
PFOS	25	1.8	0.54	0.54	1	1763-23-1		07/27/2022 20:49
MeFOSA	ND	2.0	0.50	0.50	1	31506-32-8		07/27/2022 20:49
PFDA	ND	2.0	0.56	0.56	1	335-76-2		07/27/2022 20:49
EtFOSAm	ND	2.0	0.60	0.60	1	4151-50-2		07/27/2022 20:49
8:2 FTS	ND	1.9	0.64	0.64	1	39108-34-4		07/27/2022 20:49
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		07/27/2022 20:49
PFNS	ND	1.9	0.44	0.44	1	68259-12-1		07/27/2022 20:49
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8		07/27/2022 20:49
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 20:49
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		07/27/2022 20:49
PFDS	ND	1.9	0.44	0.44	1	335-77-3		07/27/2022 20:49
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 20:49
MeFOSE	ND	2.0	0.32	0.32	1	24448-09-7		07/27/2022 20:49
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2		07/27/2022 20:49
11-CI-PF3OUdS	ND	1.9	0.43	0.43	1	763051-92-9		07/27/2022 20:49
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		07/27/2022 20:49
PFDoS	ND	1.9	0.45	0.45	1	79780-39-5		07/27/2022 20:49
PFTDA	ND	2.0	0.47	0.47	1	376-06-7		07/27/2022 20:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW28	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647012-R	Total Amount Extracted	254mL
Lab File ID	B220727B_018	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 14:45	CCal File	B220727B_017
Received	06/17/2022 10:00	Ending CCal File	B220727B_028
		Blank File	B220727B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	18	93	50-150		07/27/2022 20:49
13C4 PFOA	20	25	126	50-150		07/27/2022 20:49
13C2 PFDA	20	22	112	50-150		07/27/2022 20:49
13C4 PFOS	19	22	116	50-150		07/27/2022 20:49

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	14	70	25-150		07/27/2022 20:49
13C5 PFPeA	20	17	87	25-150		07/27/2022 20:49
13C3 PFBS	18	19	102	25-150		07/27/2022 20:49
13C2 4:2FTS	18	54	294	25-150	R	07/27/2022 20:49
13C5 PFHxA	20	19	98	25-150		07/27/2022 20:49
13C4 PFHpA	20	22	112	25-150		07/27/2022 20:49
13C3 PFHxS	19	23	125	25-150		07/27/2022 20:49
13C2 6:2FTS	19	39	211	25-150	R	07/27/2022 20:49
13C8 PFOA	20	25	125	25-150		07/27/2022 20:49
13C9 PFNA	20	22	113	25-150		07/27/2022 20:49
13C8 PFOS	19	22	119	25-150		07/27/2022 20:49
13C2 8:2FTS	19	29	154	25-150	R	07/27/2022 20:49
13C6 PFDA	20	22	109	25-150		07/27/2022 20:49
d3-MeFOSAA	20	23	119	25-150		07/27/2022 20:49
13C8 PFOSA	20	18	90	25-150		07/27/2022 20:49
d5-EtFOSAA	20	23	115	25-150		07/27/2022 20:49
13C7 PFUdA	20	28	143	25-150		07/27/2022 20:49
13C2 PFDoA	20	24	121	25-150		07/27/2022 20:49
13C2 PFTeDA	20	19	98	25-150		07/27/2022 20:49
13C3 HFPO-DA	20	19	94	25-150		07/27/2022 20:49
d7-N-MeFOSE	20	12	63	10-150		07/27/2022 20:49
d9-N-EtFOSE	20	14	70	10-150		07/27/2022 20:49
d3-N-MeFOSA	20	4.9	25	10-150		07/27/2022 20:49
d5-N-EtFOSA	20	4.2	21	10-150		07/27/2022 20:49

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW28	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647012-R	Total Amount Extracted	254mL
Lab File ID	B220727B_018	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 14:45	CCal File	B220727B_017
Received	06/17/2022 10:00	Ending CCal File	B220727B_028
		Blank File	B220727B_007

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.80	5.71	1209		07/27/2022 20:49
13C4 PFOA	N/A	N/A	7.07	6.96	1825		07/27/2022 20:49
13C2 PFDA	N/A	N/A	8.39	8.27	1582		07/27/2022 20:49
13C4 PFOS	N/A	N/A	8.85	8.75	1101		07/27/2022 20:49

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.28	4.30	1669		07/27/2022 20:49
13C5 PFPeA	N/A	N/A	5.14	5.13	1361		07/27/2022 20:49
13C3 PFBS	N/A	N/A	6.04	5.96	393		07/27/2022 20:49
13C2 4:2FTS	N/A	N/A	5.53	5.49	246	R	07/27/2022 20:49
13C5 PFHxA	N/A	N/A	5.80	5.81	797		07/27/2022 20:49
13C4 PFHpA	N/A	N/A	6.43	6.39	1518		07/27/2022 20:49
13C3 PFHxS	N/A	N/A	7.48	7.45	880		07/27/2022 20:49
13C2 6:2FTS	N/A	N/A	6.74	6.72	414	R	07/27/2022 20:49
13C8 PFOA	N/A	N/A	7.07	7.05	1879		07/27/2022 20:49
13C9 PFNA	N/A	N/A	7.72	7.70	1662		07/27/2022 20:49
13C8 PFOS	N/A	N/A	8.86	8.82	1347		07/27/2022 20:49
13C2 8:2FTS	N/A	N/A	8.01	7.98	804	R	07/27/2022 20:49
13C6 PFDA	N/A	N/A	8.39	8.35	1731		07/27/2022 20:49
d3-MeFOSAA	N/A	N/A	8.25	8.22	1768		07/27/2022 20:49
13C8 PFOSA	N/A	N/A	10.55	10.56	1218		07/27/2022 20:49
d5-EtFOSAA	N/A	N/A	8.54	8.51	1499		07/27/2022 20:49
13C7 PFUdA	N/A	N/A	9.05	9.02	2329		07/27/2022 20:49
13C2 PFDoA	N/A	N/A	9.72	9.69	1164		07/27/2022 20:49
13C2 PFTeDA	N/A	N/A	11.02	10.98	1443		07/27/2022 20:49
13C3 HFPO-DA	N/A	N/A	6.06	6.04	1338		07/27/2022 20:49
d7-N-MeFOSE	N/A	N/A	12.39	12.34	59		07/27/2022 20:49
d9-N-EtFOSE	N/A	N/A	12.85	12.84	313		07/27/2022 20:49
d3-N-MeFOSA	N/A	N/A	12.59	12.56	694		07/27/2022 20:49
d5-N-EtFOSA	N/A	N/A	13.01	13.01	622		07/27/2022 20:49

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	TW28	Extraction Date	07/25/2022 15:49
Lab Sample ID	40246647012-R	Total Amount Extracted	254mL
Lab File ID	B220727B_018	Percent Moisture	N/A
Matrix	Non_Potable_Water	Ical ID	220722B02
Collected	06/15/2022 14:45	CCal File	B220727B_017
Received	06/17/2022 10:00	Ending CCal File	B220727B_028
		Blank File	B220727B_007

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.28	4.31	147		07/27/2022 20:49
PFPeA	N/A	N/A	5.14	5.12	81		07/27/2022 20:49
HFPO-DA	0.33	0.26	6.07	6.02	ND		07/27/2022 20:49
PFBS	0.52	0.47	6.04	5.99	608		07/27/2022 20:49
PFHxA	0.06	0.08	5.81	5.75	63		07/27/2022 20:49
4:2 FTS	0.00	0.83	0.00	5.49	ND		07/27/2022 20:49
PFPeS	0.46	0.43	6.77	6.73	169		07/27/2022 20:49
PFHpA	0.33	0.32	6.44	6.39	21		07/27/2022 20:49
DONA	0.00	0.53	0.00	6.62	ND		07/27/2022 20:49
PFHxS	0.49	0.41	7.48	7.43	352		07/27/2022 20:49
PFOA	0.35	0.38	7.08	7.03	249		07/27/2022 20:49
6:2 FTS	2.80	0.93	6.74	6.72	ND		07/27/2022 20:49
PFHpS	0.50	0.38	8.19	8.13	79	J	07/27/2022 20:49
PFNA	0.10	0.12	7.73	7.67	ND		07/27/2022 20:49
PFOSAm	N/A	N/A	10.56	10.51	ND		07/27/2022 20:49
PFOS	0.33	0.40	8.60	8.81	495		07/27/2022 20:49
MeFOSA	0.00	0.56	0.00	12.61	ND		07/27/2022 20:49
PFDA	0.00	0.19	0.00	8.34	ND		07/27/2022 20:49
EtFOSAm	0.00	0.54	0.00	13.03	ND		07/27/2022 20:49
8:2 FTS	0.00	0.92	0.00	7.95	ND		07/27/2022 20:49
9-CI-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 20:49
PFNS	0.00	0.51	0.00	9.52	ND		07/27/2022 20:49
PFUnDA	0.00	0.12	0.00	9.01	ND		07/27/2022 20:49
NMeFOSAA	0.00	0.92	0.00	8.35	ND		07/27/2022 20:49
NEtFOSAA	0.00	0.65	0.00	8.51	ND		07/27/2022 20:49
PFDS	0.00	0.35	0.00	10.16	ND		07/27/2022 20:49
PFDOA	0.00	0.18	0.00	9.69	ND		07/27/2022 20:49
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 20:49
EtFOSE	0.00	0.00	0.00	12.89	ND		07/27/2022 20:49
11-CI-PF3OUdS	0.00	0.02	0.00	10.64	ND		07/27/2022 20:49
PFTTrDA	0.00	0.17	0.00	10.36	ND		07/27/2022 20:49
PFDoS	0.00	0.52	0.00	11.39	ND		07/27/2022 20:49
PFTDA	0.00	0.27	0.00	11.00	ND		07/27/2022 20:49

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKKB	Extraction Date	07/06/2022 12:06
Lab Sample ID	BLANK-99591	Total Amount Extracted	260mL
Lab File ID	B220707A_009	Percent Moisture	N/A
Matrix	Water	Ical ID	220629A02
Collected	06/21/2022 13:16	CCal File	B220707A_007
Received	06/21/2022 13:16	Ending CCal File	B220707A_019
		Blank File	

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	0.42	0.42	1	375-22-4		07/07/2022 15:15
PFPeA	ND	1.9	0.42	0.42	1	2706-90-3		07/07/2022 15:15
HFPO-DA	ND	1.9	0.51	0.51	1	13252-13-6		07/07/2022 15:15
PFBS	ND	1.7	0.46	0.46	1	375-73-5		07/07/2022 15:15
PFHxA	ND	1.9	0.42	0.42	1	307-24-4		07/07/2022 15:15
4:2 FTS	ND	1.8	0.54	0.54	1	757124-72-4		07/07/2022 15:15
PFPeS	ND	1.8	0.46	0.46	1	2706-91-4		07/07/2022 15:15
PFHpA	ND	1.9	0.53	0.53	1	375-85-9		07/07/2022 15:15
DONA	ND	1.8	0.49	0.49	1	919005-14-4		07/07/2022 15:15
PFHxS	ND	1.8	0.49	0.49	1	355-46-4		07/07/2022 15:15
PFOA	ND	1.9	0.56	0.56	1	335-67-1		07/07/2022 15:15
6:2 FTS	ND	1.8	0.62	0.62	1	27619-97-2		07/07/2022 15:15
PFHpS	ND	1.8	0.40	0.40	1	375-92-8		07/07/2022 15:15
PFNA	ND	1.9	0.71	0.71	1	375-95-1		07/07/2022 15:15
PFOSAm	ND	1.9	0.79	0.79	1	754-91-6		07/07/2022 15:15
PFOS	ND	1.8	0.53	0.53	1	1763-23-1		07/07/2022 15:15
MeFOSA	ND	1.9	0.49	0.49	1	31506-32-8		07/07/2022 15:15
PFDA	ND	1.9	0.54	0.54	1	335-76-2		07/07/2022 15:15
EtFOSAm	ND	1.9	0.59	0.59	1	4151-50-2		07/07/2022 15:15
8:2 FTS	ND	1.8	0.63	0.63	1	39108-34-4		07/07/2022 15:15
9-CI-PF3ON	ND	1.8	0.29	0.29	1	756426-58-1		07/07/2022 15:15
PFNS	ND	1.8	0.43	0.43	1	68259-12-1		07/07/2022 15:15
PFUnDA	ND	1.9	0.52	0.52	1	2058-94-8		07/07/2022 15:15
NMeFOSAA	ND	1.9	0.42	0.42	1	2355-31-9		07/07/2022 15:15
NEtFOSAA	ND	1.9	0.53	0.53	1	2991-50-6		07/07/2022 15:15
PFDS	ND	1.9	0.43	0.43	1	335-77-3		07/07/2022 15:15
PFDOA	ND	1.9	0.46	0.46	1	307-55-1		07/07/2022 15:15
MeFOSE	ND	1.9	0.32	0.32	1	24448-09-7		07/07/2022 15:15
EtFOSE	ND	1.9	0.48	0.48	1	1691-99-2		07/07/2022 15:15
11-CI-PF3OUdS	ND	1.8	0.42	0.42	1	763051-92-9		07/07/2022 15:15
PFTTrDA	ND	1.9	0.60	0.60	1	72629-94-8		07/07/2022 15:15
PFDoS	ND	1.9	0.44	0.44	1	79780-39-5		07/07/2022 15:15
PFTDA	ND	1.9	0.46	0.46	1	376-06-7		07/07/2022 15:15

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKKB	Extraction Date	07/06/2022 12:06
Lab Sample ID	BLANK-99591	Total Amount Extracted	260mL
Lab File ID	B220707A_009	Percent Moisture	N/A
Matrix	Water	Ical ID	220629A02
Collected	06/21/2022 13:16	CCal File	B220707A_007
Received	06/21/2022 13:16	Ending CCal File	B220707A_019
		Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	16	84	50-150		07/07/2022 15:15
13C4 PFOA	19	17	89	50-150		07/07/2022 15:15
13C2 PFDA	19	17	91	50-150		07/07/2022 15:15
13C4 PFOS	18	17	95	50-150		07/07/2022 15:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	19	97	50-150		07/07/2022 15:15
13C5 PFPeA	19	18	95	50-150		07/07/2022 15:15
13C3 PFBS	18	17	98	50-150		07/07/2022 15:15
13C2 4:2FTS	18	18	98	50-150		07/07/2022 15:15
13C5 PFHxA	19	18	95	50-150		07/07/2022 15:15
13C4 PFHpA	19	19	97	50-150		07/07/2022 15:15
13C3 PFHxS	18	17	91	50-150		07/07/2022 15:15
13C2 6:2FTS	18	17	91	50-150		07/07/2022 15:15
13C8 PFOA	19	18	96	50-150		07/07/2022 15:15
13C9 PFNA	19	17	89	50-150		07/07/2022 15:15
13C8 PFOS	18	18	99	50-150		07/07/2022 15:15
13C2 8:2FTS	18	15	83	50-150		07/07/2022 15:15
13C6 PFDA	19	18	93	50-150		07/07/2022 15:15
d3-MeFOSAA	19	15	79	50-150		07/07/2022 15:15
13C8 PFOSA	19	13	68	50-150		07/07/2022 15:15
d5-EtFOSAA	19	14	71	50-150		07/07/2022 15:15
13C7 PFUdA	19	18	91	50-150		07/07/2022 15:15
13C2 PFDoA	19	16	82	50-150		07/07/2022 15:15
13C2 PFTeDA	19	16	85	50-150		07/07/2022 15:15
13C3 HFPO-DA	19	18	96	50-150		07/07/2022 15:15
d7-N-MeFOSE	19	6.6	34	20-150		07/07/2022 15:15
d9-N-EtFOSE	19	5.4	28	20-150		07/07/2022 15:15
d3-N-MeFOSA	19	0.030	0	20-150	R	07/07/2022 15:15
d5-N-EtFOSA	19	0.023	0	20-150	R	07/07/2022 15:15

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKKB	Extraction Date	07/06/2022 12:06
Lab Sample ID	BLANK-99591	Total Amount Extracted	260mL
Lab File ID	B220707A_009	Percent Moisture	N/A
Matrix	Water	Ical ID	220629A02
Collected	06/21/2022 13:16	CCal File	B220707A_007
Received	06/21/2022 13:16	Ending CCal File	B220707A_019
		Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.78	5.81	1944		07/07/2022 15:15
13C4 PFOA	N/A	N/A	7.14	7.17	2165		07/07/2022 15:15
13C2 PFDA	N/A	N/A	8.54	8.54	2614		07/07/2022 15:15
13C4 PFOS	N/A	N/A	9.03	9.01	2087		07/07/2022 15:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.32	2966		07/07/2022 15:15
13C5 PFPeA	N/A	N/A	5.10	5.12	2022		07/07/2022 15:15
13C3 PFBS	N/A	N/A	6.04	6.06	3288		07/07/2022 15:15
13C2 4:2FTS	N/A	N/A	5.50	5.52	629		07/07/2022 15:15
13C5 PFHxA	N/A	N/A	5.79	5.81	1936		07/07/2022 15:15
13C4 PFHpA	N/A	N/A	6.47	6.49	1918		07/07/2022 15:15
13C3 PFHxS	N/A	N/A	7.57	7.59	1973		07/07/2022 15:15
13C2 6:2FTS	N/A	N/A	6.79	6.82	2009		07/07/2022 15:15
13C8 PFOA	N/A	N/A	7.14	7.17	2362		07/07/2022 15:15
13C9 PFNA	N/A	N/A	7.83	7.85	2238		07/07/2022 15:15
13C8 PFOS	N/A	N/A	9.03	9.01	3406		07/07/2022 15:15
13C2 8:2FTS	N/A	N/A	8.14	8.15	370		07/07/2022 15:15
13C6 PFDA	N/A	N/A	8.54	8.54	4390		07/07/2022 15:15
d3-MeFOSAA	N/A	N/A	8.40	8.40	1542		07/07/2022 15:15
13C8 PFOSA	N/A	N/A	10.84	10.77	3699		07/07/2022 15:15
d5-EtFOSAA	N/A	N/A	8.72	8.71	887		07/07/2022 15:15
13C7 PFUdA	N/A	N/A	9.24	9.22	94437		07/07/2022 15:15
13C2 PFDoA	N/A	N/A	9.94	9.90	1432		07/07/2022 15:15
13C2 PFTeDA	N/A	N/A	11.27	11.21	1712		07/07/2022 15:15
13C3 HFPO-DA	N/A	N/A	6.07	6.09	1523		07/07/2022 15:15
d7-N-MeFOSE	N/A	N/A	12.53	12.49	333		07/07/2022 15:15
d9-N-EtFOSE	N/A	N/A	12.99	12.96	476		07/07/2022 15:15
d3-N-MeFOSA	N/A	N/A	12.73	12.70	102	R	07/07/2022 15:15
d5-N-EtFOSA	N/A	N/A	13.17	13.11	21	R	07/07/2022 15:15

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKKB	Extraction Date	07/06/2022 12:06
Lab Sample ID	BLANK-99591	Total Amount Extracted	260mL
Lab File ID	B220707A_009	Percent Moisture	N/A
Matrix	Water	Ical ID	220629A02
Collected	06/21/2022 13:16	CCal File	B220707A_007
Received	06/21/2022 13:16	Ending CCal File	B220707A_019
		Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.30	4.33	ND		07/07/2022 15:15
PFPeA	N/A	N/A	5.11	5.12	ND		07/07/2022 15:15
HFPO-DA	0.46	0.30	6.08	6.10	ND		07/07/2022 15:15
PFBS	0.37	0.40	6.05	6.07	ND		07/07/2022 15:15
PFHxA	0.09	0.08	5.80	5.82	ND		07/07/2022 15:15
4:2 FTS	0.00	0.92	0.00	5.53	ND		07/07/2022 15:15
PFPeS	0.00	0.43	0.00	6.86	ND		07/07/2022 15:15
PFHpA	0.46	0.30	6.48	6.50	ND		07/07/2022 15:15
DONA	0.00	0.57	0.00	6.75	ND		07/07/2022 15:15
PFHxS	0.00	0.37	0.00	7.60	ND		07/07/2022 15:15
PFOA	0.44	0.39	7.15	7.18	ND		07/07/2022 15:15
6:2 FTS	1.40	0.87	6.80	6.82	ND		07/07/2022 15:15
PFHpS	0.00	0.38	0.00	8.32	ND		07/07/2022 15:15
PFNA	0.18	0.15	7.84	7.86	ND		07/07/2022 15:15
PFOSAm	N/A	N/A	10.85	10.78	ND		07/07/2022 15:15
PFOS	0.50	0.40	9.04	9.03	ND		07/07/2022 15:15
MeFOSA	0.00	0.56	0.00	12.73	ND		07/07/2022 15:15
PFDA	0.00	0.19	0.00	8.58	ND		07/07/2022 15:15
EtFOSAm	0.00	0.61	0.00	13.10	ND		07/07/2022 15:15
8:2 FTS	0.00	1.10	0.00	8.15	ND		07/07/2022 15:15
9-Cl-PF3ON	0.00	0.05	0.00	9.52	ND		07/07/2022 15:15
PFNS	0.00	0.47	0.00	9.74	ND		07/07/2022 15:15
PFUnDA	0.22	0.13	9.23	9.22	ND		07/07/2022 15:15
NMeFOSAA	0.00	0.76	0.00	8.41	ND		07/07/2022 15:15
NEtFOSAA	0.00	0.72	0.00	8.72	ND		07/07/2022 15:15
PFDS	0.00	0.32	0.00	10.41	ND		07/07/2022 15:15
PFDOA	0.00	0.19	0.00	9.92	ND		07/07/2022 15:15
MeFOSE	N/A	N/A	0.00	12.52	ND		07/07/2022 15:15
EtFOSE	0.00	0.00	0.00	12.99	ND		07/07/2022 15:15
11-Cl-PF3OUdS	0.00	0.02	0.00	10.87	ND		07/07/2022 15:15
PFTTrDA	0.00	0.16	0.00	10.59	ND		07/07/2022 15:15
PFDoS	0.00	0.46	0.00	11.61	ND		07/07/2022 15:15
PFTDA	0.00	0.24	0.00	11.21	ND		07/07/2022 15:15

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKSC	Extraction Date	07/25/2022 15:49
Lab Sample ID	BLANK-100191	Total Amount Extracted	250mL
Lab File ID	B220727B_007	Percent Moisture	N/A
Matrix	Water	Ical ID	220722B02
Collected	07/22/2022 15:59	CCal File	B220727B_005
Received	07/22/2022 15:59	Ending CCal File	B220727B_017
		Blank File	

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.44	0.44	1	375-22-4		07/27/2022 17:09
PFPeA	ND	2.0	0.44	0.44	1	2706-90-3		07/27/2022 17:09
HFPO-DA	ND	2.0	0.53	0.53	1	13252-13-6		07/27/2022 17:09
PFBS	ND	1.8	0.47	0.47	1	375-73-5		07/27/2022 17:09
PFHxA	ND	2.0	0.44	0.44	1	307-24-4		07/27/2022 17:09
4:2 FTS	ND	1.9	0.56	0.56	1	757124-72-4		07/27/2022 17:09
PFPeS	ND	1.9	0.48	0.48	1	2706-91-4		07/27/2022 17:09
PFHpA	ND	2.0	0.55	0.55	1	375-85-9		07/27/2022 17:09
DONA	ND	1.9	0.51	0.51	1	919005-14-4		07/27/2022 17:09
PFHxS	ND	1.8	0.51	0.51	1	355-46-4		07/27/2022 17:09
PFOA	ND	2.0	0.58	0.58	1	335-67-1		07/27/2022 17:09
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2		07/27/2022 17:09
PFHpS	ND	1.9	0.41	0.41	1	375-92-8		07/27/2022 17:09
PFNA	ND	2.0	0.74	0.74	1	375-95-1		07/27/2022 17:09
PFOSAm	ND	2.0	0.82	0.82	1	754-91-6		07/27/2022 17:09
PFOS	ND	1.8	0.55	0.55	1	1763-23-1		07/27/2022 17:09
MeFOSA	ND	2.0	0.51	0.51	1	31506-32-8		07/27/2022 17:09
PFDA	ND	2.0	0.56	0.56	1	335-76-2		07/27/2022 17:09
EtFOSAm	ND	2.0	0.61	0.61	1	4151-50-2		07/27/2022 17:09
8:2 FTS	ND	1.9	0.65	0.65	1	39108-34-4		07/27/2022 17:09
9-CI-PF3ON	ND	1.9	0.30	0.30	1	756426-58-1		07/27/2022 17:09
PFNS	ND	1.9	0.45	0.45	1	68259-12-1		07/27/2022 17:09
PFUnDA	ND	2.0	0.54	0.54	1	2058-94-8		07/27/2022 17:09
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		07/27/2022 17:09
NEtFOSAA	ND	2.0	0.56	0.56	1	2991-50-6		07/27/2022 17:09
PFDS	ND	1.9	0.45	0.45	1	335-77-3		07/27/2022 17:09
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		07/27/2022 17:09
MeFOSE	ND	2.0	0.33	0.33	1	24448-09-7		07/27/2022 17:09
EtFOSE	ND	2.0	0.50	0.50	1	1691-99-2		07/27/2022 17:09
11-CI-PF3OUdS	ND	1.9	0.44	0.44	1	763051-92-9		07/27/2022 17:09
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		07/27/2022 17:09
PFDoS	ND	1.9	0.46	0.46	1	79780-39-5		07/27/2022 17:09
PFTDA	ND	2.0	0.48	0.48	1	376-06-7		07/27/2022 17:09

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKSC	Extraction Date	07/25/2022 15:49
Lab Sample ID	BLANK-100191	Total Amount Extracted	250mL
Lab File ID	B220727B_007	Percent Moisture	N/A
Matrix	Water	Ical ID	220722B02
Collected	07/22/2022 15:59	CCal File	B220727B_005
Received	07/22/2022 15:59	Ending CCal File	B220727B_017
		Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	21	103	50-150		07/27/2022 17:09
13C4 PFOA	20	22	108	50-150		07/27/2022 17:09
13C2 PFDA	20	20	102	50-150		07/27/2022 17:09
13C4 PFOS	19	21	112	50-150		07/27/2022 17:09

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	23	117	50-150		07/27/2022 17:09
13C5 PFPeA	20	21	104	50-150		07/27/2022 17:09
13C3 PFBS	19	20	110	50-150		07/27/2022 17:09
13C2 4:2FTS	19	19	100	50-150		07/27/2022 17:09
13C5 PFHxA	20	23	113	50-150		07/27/2022 17:09
13C4 PFHpA	20	20	98	50-150		07/27/2022 17:09
13C3 PFHxS	19	22	116	50-150		07/27/2022 17:09
13C2 6:2FTS	19	20	105	50-150		07/27/2022 17:09
13C8 PFOA	20	20	101	50-150		07/27/2022 17:09
13C9 PFNA	20	19	94	50-150		07/27/2022 17:09
13C8 PFOS	19	18	96	50-150		07/27/2022 17:09
13C2 8:2FTS	19	21	108	50-150		07/27/2022 17:09
13C6 PFDA	20	20	101	50-150		07/27/2022 17:09
d3-MeFOSAA	20	20	98	50-150		07/27/2022 17:09
13C8 PFOSA	20	19	95	50-150		07/27/2022 17:09
d5-EtFOSAA	20	19	93	50-150		07/27/2022 17:09
13C7 PFUdA	20	21	103	50-150		07/27/2022 17:09
13C2 PFDoA	20	22	108	50-150		07/27/2022 17:09
13C2 PFTeDA	20	17	87	50-150		07/27/2022 17:09
13C3 HFPO-DA	20	20	99	50-150		07/27/2022 17:09
d7-N-MeFOSE	20	19	97	20-150		07/27/2022 17:09
d9-N-EtFOSE	20	20	99	20-150		07/27/2022 17:09
d3-N-MeFOSA	20	18	90	20-150		07/27/2022 17:09
d5-N-EtFOSA	20	17	87	20-150		07/27/2022 17:09

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKSC	Extraction Date	07/25/2022 15:49
Lab Sample ID	BLANK-100191	Total Amount Extracted	250mL
Lab File ID	B220727B_007	Percent Moisture	N/A
Matrix	Water	Ical ID	220722B02
Collected	07/22/2022 15:59	CCal File	B220727B_005
Received	07/22/2022 15:59	Ending CCal File	B220727B_017
		Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.77	5.71	2087		07/27/2022 17:09
13C4 PFOA	N/A	N/A	7.04	6.96	1988		07/27/2022 17:09
13C2 PFDA	N/A	N/A	8.37	8.27	1227		07/27/2022 17:09
13C4 PFOS	N/A	N/A	8.84	8.75	1808		07/27/2022 17:09

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.30	2591		07/27/2022 17:09
13C5 PFPeA	N/A	N/A	5.13	5.13	2659		07/27/2022 17:09
13C3 PFBS	N/A	N/A	6.01	5.96	2475		07/27/2022 17:09
13C2 4:2FTS	N/A	N/A	5.51	5.49	1076		07/27/2022 17:09
13C5 PFHxA	N/A	N/A	5.77	5.81	2064		07/27/2022 17:09
13C4 PFHpA	N/A	N/A	6.41	6.39	1661		07/27/2022 17:09
13C3 PFHxS	N/A	N/A	7.45	7.45	1871		07/27/2022 17:09
13C2 6:2FTS	N/A	N/A	6.71	6.72	2198		07/27/2022 17:09
13C8 PFOA	N/A	N/A	7.04	7.05	2287		07/27/2022 17:09
13C9 PFNA	N/A	N/A	7.70	7.70	1966		07/27/2022 17:09
13C8 PFOS	N/A	N/A	8.84	8.82	2067		07/27/2022 17:09
13C2 8:2FTS	N/A	N/A	7.99	7.98	2147		07/27/2022 17:09
13C6 PFDA	N/A	N/A	8.37	8.35	1291		07/27/2022 17:09
d3-MeFOSAA	N/A	N/A	8.23	8.22	1457		07/27/2022 17:09
13C8 PFOSA	N/A	N/A	10.55	10.56	1424		07/27/2022 17:09
d5-EtFOSAA	N/A	N/A	8.52	8.51	1067		07/27/2022 17:09
13C7 PFUdA	N/A	N/A	9.03	9.02	2457		07/27/2022 17:09
13C2 PFDoA	N/A	N/A	9.69	9.69	1376		07/27/2022 17:09
13C2 PFTeDA	N/A	N/A	11.00	10.98	1020		07/27/2022 17:09
13C3 HFPO-DA	N/A	N/A	6.03	6.04	1382		07/27/2022 17:09
d7-N-MeFOSE	N/A	N/A	12.37	12.34	45		07/27/2022 17:09
d9-N-EtFOSE	N/A	N/A	12.84	12.84	215		07/27/2022 17:09
d3-N-MeFOSA	N/A	N/A	12.58	12.56	747		07/27/2022 17:09
d5-N-EtFOSA	N/A	N/A	13.00	13.01	738		07/27/2022 17:09

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKSC	Extraction Date	07/25/2022 15:49
Lab Sample ID	BLANK-100191	Total Amount Extracted	250mL
Lab File ID	B220727B_007	Percent Moisture	N/A
Matrix	Water	Ical ID	220722B02
Collected	07/22/2022 15:59	CCal File	B220727B_005
Received	07/22/2022 15:59	Ending CCal File	B220727B_017
		Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.29	4.31	ND		07/27/2022 17:09
PFPeA	N/A	N/A	5.13	5.12	ND		07/27/2022 17:09
HFPO-DA	0.56	0.28	6.05	6.02	ND		07/27/2022 17:09
PFBS	0.37	0.48	6.02	5.99	ND		07/27/2022 17:09
PFHxA	0.13	0.08	5.78	5.75	ND		07/27/2022 17:09
4:2 FTS	0.00	0.80	0.00	5.49	ND		07/27/2022 17:09
PFPeS	0.00	0.41	0.00	6.73	ND		07/27/2022 17:09
PFHpA	0.00	0.32	0.00	6.39	ND		07/27/2022 17:09
DONA	0.58	0.49	6.64	6.62	ND		07/27/2022 17:09
PFHxS	0.00	0.39	0.00	7.43	ND		07/27/2022 17:09
PFOA	0.49	0.39	7.05	7.03	ND		07/27/2022 17:09
6:2 FTS	0.78	0.76	6.71	6.72	ND		07/27/2022 17:09
PFHpS	0.00	0.42	0.00	8.13	ND		07/27/2022 17:09
PFNA	0.14	0.13	7.71	7.67	ND		07/27/2022 17:09
PFOSAm	N/A	N/A	10.57	10.51	ND		07/27/2022 17:09
PFOS	0.51	0.43	8.84	8.81	ND		07/27/2022 17:09
MeFOSA	0.00	0.54	0.00	12.61	ND		07/27/2022 17:09
PFDA	0.00	0.18	0.00	8.34	ND		07/27/2022 17:09
EtFOSAm	0.00	0.53	0.00	13.03	ND		07/27/2022 17:09
8:2 FTS	1.50	0.97	8.00	7.95	ND		07/27/2022 17:09
9-Cl-PF3ON	0.00	0.06	0.00	9.31	ND		07/27/2022 17:09
PFNS	0.53	0.55	9.52	9.52	ND		07/27/2022 17:09
PFUnDA	0.07	0.13	9.04	9.01	ND		07/27/2022 17:09
NMeFOSAA	0.46	0.95	8.24	8.35	ND		07/27/2022 17:09
NEtFOSAA	0.00	0.63	0.00	8.51	ND		07/27/2022 17:09
PFDS	0.49	0.37	10.17	10.16	ND		07/27/2022 17:09
PFDOA	0.14	0.18	9.70	9.69	ND		07/27/2022 17:09
MeFOSE	N/A	N/A	0.00	12.41	ND		07/27/2022 17:09
EtFOSE	0.00	0.00	12.89	12.89	ND		07/27/2022 17:09
11-Cl-PF3OUdS	0.05	0.02	10.65	10.64	ND		07/27/2022 17:09
PFTTrDA	0.22	0.17	10.36	10.36	ND		07/27/2022 17:09
PFDoS	0.40	0.52	11.41	11.39	ND		07/27/2022 17:09
PFTDA	0.22	0.26	11.01	11.00	ND		07/27/2022 17:09

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99592	Instrument ID	10LCMS02
Run File Name	B220707A_010	Column ID	1071B00011
Analyzed	07/07/2022 15:35	Ical ID	220629A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	19	16	87	50-150	
13C4_PFOA	19	17	91	50-150	
13C2_PFDA	19	17	93	50-150	
13C4_PFOS	18	17	96	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	19	19	101	50-150	
13C5_PFPeA	19	19	100	50-150	
13C3_PFBFS	17	18	101	50-150	
13C2_4:2FTS	18	17	99	50-150	
13C5_PFHxA	19	19	100	50-150	
13C4_PFHpA	19	20	107	50-150	
13C3_PFHxS	18	17	94	50-150	
13C2_6:2FTS	18	17	95	50-150	
13C8_PFOA	19	19	100	50-150	
13C9_PFNA	19	18	98	50-150	
13C8_PFOS	18	20	113	50-150	
13C2_8:2FTS	18	18	98	50-150	
13C6_PFDA	19	20	104	50-150	
d3-MeFOSAA	19	19	101	50-150	
13C8_PFOSA	19	14	73	50-150	
d5-EtFOSAA	19	18	95	50-150	
13C7_PFUdA	19	20	108	50-150	
13C2_PFDaA	19	19	103	50-150	
13C2_PFTeDA	19	18	95	50-150	
13C3_HFPO-DA	19	19	101	50-150	
d7-N-MeFOSE	19	8.3	44	20-150	
d9-N-EtFOSE	19	7.5	40	20-150	
d3-N-MeFOSA	19	0.22	1	20-150	R
d5-N-EtFOSA	19	0.19	1	20-150	R

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99592
 Run File Name B220707A_010
 Analyzed 07/07/2022 15:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00011
 Ical ID 220629A02
 Level L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	3.8	4.7	124	50-150		375-22-4
PFPeA	3.8	4.3	115	50-150		2706-90-3
HFPO-DA	3.8	4.2	111	50-150		13252-13-6
PFBS	3.3	3.8	115	50-150		375-73-5
PFHxA	3.8	4.7	125	50-150		307-24-4
4:2 FTS	3.5	4.2	118	50-150		757124-72-4
PFPeS	3.5	4.1	115	50-150		2706-91-4
PFHpA	3.8	4.6	122	50-150		375-85-9
DONA	3.5	3.9	109	50-150		919005-14-4
PFHxS	3.4	3.8	111	50-150		355-46-4
PFOA	3.8	4.3	115	50-150		335-67-1
6:2 FTS	3.6	3.6	102	50-150		27619-97-2
PFHpS	3.6	4.1	115	50-150		375-92-8
PFNA	3.8	4.3	114	50-150		375-95-1
PFOSAm	3.8	4.3	115	50-150		754-91-6
PFOS	3.5	3.6	103	50-150		1763-23-1
MeFOSA	3.8	3.2	86	50-150		31506-32-8
PFDA	3.8	3.9	104	50-150		335-76-2
EtFOSAm	3.8	2.6	69	50-150		4151-50-2
8:2 FTS	3.6	3.6	99	50-150		39108-34-4
9-CI-PF3ON	3.5	3.0	87	50-150		756426-58-1
PFNS	3.6	3.6	99	50-150		68259-12-1
PFUnDA	3.8	4.4	118	50-150		2058-94-8
NMeFOSAA	3.8	4.1	109	50-150		2355-31-9
NEtFOSAA	3.8	4.4	116	50-150		2991-50-6
PFDS	3.6	3.3	91	50-150		335-77-3
PFDOA	3.8	4.3	114	50-150		307-55-1
MeFOSE	3.8	4.6	122	50-150		24448-09-7
EtFOSE	3.8	3.9	105	50-150		1691-99-2
11-CI-PF3OUdS	3.5	3.1	88	50-150		763051-92-9
PFTrDA	3.8	3.6	95	50-150		72629-94-8
PFDoS	3.6	3.0	83	50-150		79780-39-5
PFTDA	3.8	4.0	106	50-150		376-06-7

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99592	Instrument ID	10LCMS02
Run File Name	B220707A_010	Column ID	1071B00011
Analyzed	07/07/2022 15:35	Ical ID	220629A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.78	5.81	1495	
13C4 PFOA	N/A	N/A	7.14	7.17	1885	
13C2 PFDA	N/A	N/A	8.55	8.54	1876	
13C4 PFOS	N/A	N/A	9.04	9.01	11999	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.31	4.32	2585	
13C5 PFPeA	N/A	N/A	5.10	5.12	2018	
13C3 PFBS	N/A	N/A	6.04	6.06	1616	
13C2 4:2FTS	N/A	N/A	5.49	5.52	663	
13C5 PFHxA	N/A	N/A	5.78	5.81	1731	
13C4 PFHpA	N/A	N/A	6.47	6.49	1873	
13C3 PFHxS	N/A	N/A	7.57	7.59	1730	
13C2 6:2FTS	N/A	N/A	6.79	6.82	1979	
13C8 PFOA	N/A	N/A	7.15	7.17	2383	
13C9 PFNA	N/A	N/A	7.84	7.85	2746	
13C8 PFOS	N/A	N/A	9.05	9.01	26697	
13C2 8:2FTS	N/A	N/A	8.14	8.15	212	
13C6 PFDA	N/A	N/A	8.55	8.54	1866	
d3-MeFOSAA	N/A	N/A	8.41	8.40	1683	
13C8 PFOSA	N/A	N/A	10.85	10.77	4033	
d5-EtFOSAA	N/A	N/A	8.72	8.71	1007	
13C7 PFUdA	N/A	N/A	9.26	9.22	2418	
13C2 PFDoA	N/A	N/A	9.95	9.90	1207	
13C2 PFTeDA	N/A	N/A	11.28	11.21	2300	
13C3 HFPO-DA	N/A	N/A	6.06	6.09	1771	
d7-N-MeFOSE	N/A	N/A	12.54	12.49	379	
d9-N-EtFOSE	N/A	N/A	12.99	12.96	476	
d3-N-MeFOSA	N/A	N/A	12.74	12.70	522	R
d5-N-EtFOSA	N/A	N/A	13.15	13.11	193	R

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99592
 Run File Name B220707A_010
 Analyzed 07/07/2022 15:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00011
 Ical ID 220629A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.31	4.33	156	
PFPeA	N/A	N/A	5.10	5.12	455	
HFPO-DA	0.28	0.30	6.07	6.10	996	
PFBS	0.41	0.40	6.04	6.07	1064	
PFHxA	0.09	0.08	5.79	5.82	294	
4:2 FTS	0.80	0.92	5.50	5.53	8745	
PFPeS	0.42	0.43	6.83	6.86	1267	
PFHpA	0.29	0.30	6.48	6.50	17	
DONA	0.61	0.57	6.72	6.75	1402	
PFHxS	0.36	0.37	7.58	7.60	1160	
PFOA	0.38	0.39	7.15	7.18	197	
6:2 FTS	0.96	0.87	6.79	6.82	603	
PFHpS	0.40	0.38	8.33	8.32	1526	
PFNA	0.13	0.15	7.85	7.86	584	
PFOSAm	N/A	N/A	10.86	10.78	907	
PFOS	0.45	0.40	9.06	9.03	556	
MeFOSA	0.62	0.56	12.75	12.73	1011	
PFDA	0.20	0.19	8.55	8.58	304	
EtFOSAm	0.50	0.61	13.18	13.18	95	
8:2 FTS	1.00	1.10	8.15	8.15	214	
9-CI-PF3ON	0.06	0.05	9.57	9.52	1123	
PFNS	0.46	0.47	9.76	9.74	1152	
PFUnDA	0.13	0.13	9.26	9.22	422	
NMeFOSAA	0.74	0.76	8.42	8.41	113	
NEtFOSAA	0.59	0.72	8.74	8.72	356	
PFDS	0.33	0.32	10.44	10.41	2229	
PFDOA	0.16	0.19	9.96	9.92	374	
MeFOSE	N/A	N/A	12.58	12.52	272	
EtFOSE	0.00	0.00	13.03	12.99	278	
11-CI-PF3OUdS	0.02	0.02	10.92	10.87	669	
PFTrDA	0.15	0.16	10.64	10.59	346	
PFDoS	0.48	0.46	11.68	11.61	2658	
PFTDA	0.26	0.24	11.28	11.21	262	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-100192	Instrument ID	10LCMS02
Run File Name	B220727B_008	Column ID	1071B00011
Analyzed	07/27/2022 17:29	Ical ID	220722B02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	20	21	107	50-150	
13C4_PFOA	20	25	124	50-150	
13C2_PFDA	20	23	113	50-150	
13C4_PFOS	19	24	126	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	20	25	123	50-150	
13C5_PFPeA	20	22	109	50-150	
13C3_PFBFS	19	23	122	50-150	
13C2_4:2FTS	19	21	111	50-150	
13C5_PFHxA	20	23	113	50-150	
13C4_PFHpA	20	22	108	50-150	
13C3_PFHxS	19	22	116	50-150	
13C2_6:2FTS	19	20	106	50-150	
13C8_PFOA	20	22	110	50-150	
13C9_PFNA	20	22	109	50-150	
13C8_PFOS	19	22	114	50-150	
13C2_8:2FTS	19	19	101	50-150	
13C6_PFDA	20	20	98	50-150	
d3-MeFOSAA	20	19	94	50-150	
13C8_PFOA	20	19	94	50-150	
d5-EtFOSAA	20	17	83	50-150	
13C7_PFUdA	20	21	104	50-150	
13C2_PFDaA	20	20	101	50-150	
13C2_PFTeDA	20	19	93	50-150	
13C3_HFPO-DA	20	21	105	50-150	
d7-N-MeFOSE	20	19	94	20-150	
d9-N-EtFOSE	20	16	78	20-150	
d3-N-MeFOSA	20	16	78	20-150	
d5-N-EtFOSA	20	15	77	20-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100192
 Run File Name B220727B_008
 Analyzed 07/27/2022 17:29
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00011
 Ical ID 220722B02
 Level L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	4.0	4.5	111	50-150		375-22-4
PFPeA	4.0	4.8	120	50-150		2706-90-3
HFPO-DA	4.0	4.8	120	50-150		13252-13-6
PFBS	3.5	4.3	120	50-150		375-73-5
PFHxA	4.0	4.8	119	50-150		307-24-4
4:2 FTS	3.7	4.3	115	50-150		757124-72-4
PFPeS	3.8	4.2	113	50-150		2706-91-4
PFHpA	4.0	4.5	114	50-150		375-85-9
DONA	3.8	4.4	115	50-150		919005-14-4
PFHxS	3.6	4.1	113	50-150		355-46-4
PFOA	4.0	5.0	124	50-150		335-67-1
6:2 FTS	3.8	4.6	121	50-150		27619-97-2
PFHpS	3.8	4.4	115	50-150		375-92-8
PFNA	4.0	4.8	121	50-150		375-95-1
PFOSAm	4.0	4.6	115	50-150		754-91-6
PFOS	3.7	3.9	106	50-150		1763-23-1
MeFOSA	4.0	4.3	108	50-150		31506-32-8
PFDA	4.0	4.5	114	50-150		335-76-2
EtFOSAm	4.0	4.3	107	50-150		4151-50-2
8:2 FTS	3.8	5.1	133	50-150		39108-34-4
9-CI-PF3ON	3.7	4.1	110	50-150		756426-58-1
PFNS	3.8	4.5	116	50-150		68259-12-1
PFUnDA	4.0	4.4	110	50-150		2058-94-8
NMeFOSAA	4.0	4.0	101	50-150		2355-31-9
NEtFOSAA	4.0	4.4	110	50-150		2991-50-6
PFDS	3.9	4.2	110	50-150		335-77-3
PFDOA	4.0	4.5	113	50-150		307-55-1
MeFOSE	4.0	4.5	111	50-150		24448-09-7
EtFOSE	4.0	4.9	122	50-150		1691-99-2
11-CI-PF3OUdS	3.8	3.8	100	50-150		763051-92-9
PFTrDA	4.0	4.8	120	50-150		72629-94-8
PFDoS	3.9	4.1	107	50-150		79780-39-5
PFTDA	4.0	4.2	105	50-150		376-06-7

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100192
 Run File Name B220727B_008
 Analyzed 07/27/2022 17:29
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00011
 Ical ID 220722B02
 Level L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.78	5.71	1740	
13C4 PFOA	N/A	N/A	7.04	6.96	1970	
13C2 PFDA	N/A	N/A	8.35	8.27	1260	
13C4 PFOS	N/A	N/A	8.82	8.75	1391	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.30	4.30	2705	
13C5 PFPeA	N/A	N/A	5.13	5.13	2347	
13C3 PFBS	N/A	N/A	6.01	5.96	2678	
13C2 4:2FTS	N/A	N/A	5.52	5.49	786	
13C5 PFHxA	N/A	N/A	5.78	5.81	1607	
13C4 PFHpA	N/A	N/A	6.40	6.39	2014	
13C3 PFHxS	N/A	N/A	7.44	7.45	2170	
13C2 6:2FTS	N/A	N/A	6.71	6.72	2563	
13C8 PFOA	N/A	N/A	7.04	7.05	2141	
13C9 PFNA	N/A	N/A	7.69	7.70	2190	
13C8 PFOS	N/A	N/A	8.82	8.82	1882	
13C2 8:2FTS	N/A	N/A	7.97	7.98	4215	
13C6 PFDA	N/A	N/A	8.35	8.35	1558	
d3-MeFOSAA	N/A	N/A	8.22	8.22	1057	
13C8 PFOSA	N/A	N/A	10.56	10.56	1134	
d5-EtFOSAA	N/A	N/A	8.51	8.51	1119	
13C7 PFUdA	N/A	N/A	9.02	9.02	2605	
13C2 PFDoA	N/A	N/A	9.70	9.69	1243	
13C2 PFTeDA	N/A	N/A	11.01	10.98	1130	
13C3 HFPO-DA	N/A	N/A	6.03	6.04	1700	
d7-N-MeFOSE	N/A	N/A	12.38	12.34	51	
d9-N-EtFOSE	N/A	N/A	12.85	12.84	208	
d3-N-MeFOSA	N/A	N/A	12.59	12.56	695	
d5-N-EtFOSA	N/A	N/A	13.01	13.01	792	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100192
 Run File Name B220727B_008
 Analyzed 07/27/2022 17:29
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00011
 Ical ID 220722B02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.30	4.31	142	
PFPeA	N/A	N/A	5.14	5.12	304	
HFPO-DA	0.29	0.28	6.04	6.02	731	
PFBS	0.41	0.48	6.02	5.99	1055	
PFHxA	0.08	0.08	5.78	5.75	284	
4:2 FTS	0.81	0.80	5.52	5.49	1865	
PFPeS	0.44	0.41	6.75	6.73	1238	
PFHpA	0.29	0.32	6.41	6.39	21	
DONA	0.58	0.49	6.64	6.62	1469	
PFHxS	0.40	0.39	7.45	7.43	1052	
PFOA	0.37	0.39	7.04	7.03	262	
6:2 FTS	0.86	0.76	6.71	6.72	500	
PFHpS	0.39	0.42	8.14	8.13	1417	
PFNA	0.13	0.13	7.69	7.67	582	
PFOSAm	N/A	N/A	10.57	10.51	984	
PFOS	0.42	0.43	8.83	8.81	366	
MeFOSA	0.56	0.54	12.62	12.61	606	
PFDA	0.20	0.18	8.36	8.34	359	
EtFOSAm	0.52	0.53	13.03	13.03	772	
8:2 FTS	0.81	0.97	7.98	7.95	1338061	
9-CI-PF3ON	0.06	0.06	9.33	9.31	1290	
PFNS	0.53	0.55	9.52	9.52	1296	
PFUnDA	0.14	0.13	9.03	9.01	466	
NMeFOSAA	0.99	0.95	8.23	8.35	1366	
NEtFOSAA	0.66	0.63	8.52	8.51	361	
PFDS	0.33	0.37	10.18	10.16	1141	
PFDOA	0.20	0.18	9.71	9.69	404	
MeFOSE	N/A	N/A	12.42	12.41	369	
EtFOSE	0.00	0.00	12.89	12.89	297	
11-CI-PF3OUdS	0.02	0.02	10.65	10.64	1001	
PFTrDA	0.18	0.17	10.37	10.36	357	
PFDoS	0.52	0.52	11.41	11.39	1392	
PFTDA	0.26	0.26	11.02	11.00	394	

REPORT OF LABORATORY ANALYSIS

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LCSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCSD-99606
 Run File Name B220707A_011
 Analyzed 07/07/2022 15:55
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00011
 Ical ID 220629A02
 Level L

Injection Internal Standards

Compound	Known Conc.	LCS Conc. Found	LCS Rec. %	LCSD Conc. Found	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
13C2 PFHxA	20	16	87	16	82	6.6	50-150	
13C4 PFOA	20	17	91	17	88	3.4	50-150	
13C2 PFDA	20	17	93	17	85	8.7	50-150	
13C4 PFOS	19	17	96	16	84	13.6	50-150	

Extracted Internal Standards

Compound	Known Conc.	LCS Conc. Found	LCS Rec. %	LCSD Conc. Found	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
13C4 PFBA	20	19	101	18	91	10.1	50-150	
13C5 PFPeA	20	19	100	18	90	11.1	50-150	
13C3 PFBS	18	18	101	16	89	12.4	50-150	
13C2 4:2FTS	18	17	99	16	90	9.6	50-150	
13C5 PFHxA	20	19	100	18	94	6.9	50-150	
13C4 PFHpA	20	20	107	18	94	12.7	50-150	
13C3 PFHxS	18	17	94	16	86	8.4	50-150	
13C2 6:2FTS	19	17	95	16	88	7.7	50-150	
13C8 PFOA	20	19	100	18	90	10.7	50-150	
13C9 PFNA	20	18	98	17	88	10.7	50-150	
13C8 PFOS	19	20	113	18	94	18.8	50-150	
13C2 8:2FTS	19	18	98	18	94	3.7	50-150	
13C6 PFDA	20	20	104	18	91	12.9	50-150	
d3-MeFOSAA	20	19	101	17	86	16.3	50-150	
13C8 PFOSA	20	14	73	6.5	33	74.0	50-150	R
d5-EtFOSAA	20	18	95	18	90	6.1	50-150	
13C7 PFUdA	20	20	108	18	94	13.3	50-150	
13C2 PFDoA	20	19	103	17	88	15.4	50-150	
13C2 PFTeDA	20	18	95	15	79	18.2	50-150	
13C3 HFPO-DA	20	19	101	18	90	12.2	50-150	
d7-N-MeFOSE	20	8.3	44	1.0	5	157.8	20-150	R
d9-N-EtFOSE	20	7.5	40	0.81	4	162.4	20-150	R
d3-N-MeFOSA	20	0.22	1	0.0051	0	191.5	20-150	R
d5-N-EtFOSA	20	0.19	1	0.00	0	200.0	20-150	R

REPORT OF LABORATORY ANALYSIS

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LCSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCSD-99606
 Run File Name B220707A_011
 Analyzed 07/07/2022 15:55
 Injected By NH

Instrument ID 10LCMS02
 Column ID 1071B00011
 Ical ID 220629A02
 Level L

Native Analytes

Compound	Known Conc.	LCS Conc. Found	LCS Rec. %	LCSD Conc. Found	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
PFBA	3.9	4.7	124	4.5	115	7.2	50-150	
PFPeA	3.9	4.3	115	4.3	110	4.7	50-150	
HFPO-DA	3.9	4.2	111	4.3	111	0.1	50-150	
PFBS	3.5	3.8	115	3.7	106	7.8	50-150	
PFHxA	3.9	4.7	125	4.3	111	11.7	50-150	
4:2 FTS	3.7	4.2	118	3.5	96	21.0	50-150	
PFPeS	3.7	4.1	115	3.8	104	9.7	50-150	
PFHpA	3.9	4.6	122	4.2	107	13.7	50-150	
DONA	3.7	3.9	109	4.1	110	0.3	50-150	
PFHxS	3.6	3.8	111	3.7	104	7.3	50-150	
PFOA	3.9	4.3	115	4.2	109	5.7	50-150	
6:2 FTS	3.7	3.6	102	3.9	104	2.8	50-150	
PFHpS	3.7	4.1	115	4.1	110	4.2	50-150	
PFNA	3.9	4.3	114	4.1	106	7.4	50-150	
PFOSAm	3.9	4.3	115	3.8	98	15.6	50-150	
PFOS	3.6	3.6	103	4.0	111	8.1	50-150	
MeFOSA	3.9	3.2	86	0.00	0	200.0	50-150	R
PFDA	3.9	3.9	104	4.0	103	0.9	50-150	
EtFOSAm	3.9	2.6	69	-39	-1000	200.0	50-150	R
8:2 FTS	3.7	3.6	99	3.9	104	4.4	50-150	
9-CI-PF3ON	3.6	3.0	87	3.4	92	6.2	50-150	
PFNS	3.7	3.6	99	3.8	100	0.8	50-150	
PFUnDA	3.9	4.4	118	3.9	101	16.1	50-150	
NMeFOSAA	3.9	4.1	109	3.9	101	8.3	50-150	
NEtFOSAA	3.9	4.4	116	4.0	102	12.9	50-150	
PFDS	3.8	3.3	91	3.5	92	0.5	50-150	
PFDOA	3.9	4.3	114	4.1	104	8.9	50-150	
MeFOSE	3.9	4.6	122	4.4	112	8.6	50-150	
EtFOSE	3.9	3.9	105	4.3	110	4.7	50-150	
11-CI-PF3OUdS	3.7	3.1	88	3.3	91	3.0	50-150	
PFTTrDA	3.9	3.6	95	3.8	98	2.7	50-150	
PFDoS	3.8	3.0	83	3.1	81	2.6	50-150	
PFTDA	3.9	4.0	106	4.1	104	2.1	50-150	

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Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.78	5.81	1701	
13C4 PFOA	N/A	N/A	7.15	7.17	2118	
13C2 PFDA	N/A	N/A	8.54	8.54	2087	
13C4 PFOS	N/A	N/A	9.03	9.01	2640	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.30	4.32	2716	
13C5 PFPeA	N/A	N/A	5.10	5.12	1827	
13C3 PFBS	N/A	N/A	6.04	6.06	1750	
13C2 4:2FTS	N/A	N/A	5.49	5.52	636	
13C5 PFHxA	N/A	N/A	5.78	5.81	1744	
13C4 PFHpA	N/A	N/A	6.47	6.49	1909	
13C3 PFHxS	N/A	N/A	7.57	7.59	1947	
13C2 6:2FTS	N/A	N/A	6.80	6.82	1714	
13C8 PFOA	N/A	N/A	7.15	7.17	2540	
13C9 PFNA	N/A	N/A	7.84	7.85	2449	
13C8 PFOS	N/A	N/A	9.03	9.01	139814	
13C2 8:2FTS	N/A	N/A	8.14	8.15	52694	
13C6 PFDA	N/A	N/A	8.54	8.54	1808	
d3-MeFOSAA	N/A	N/A	8.41	8.40	1479	
13C8 PFOSA	N/A	N/A	10.84	10.77	1416	R
d5-EtFOSAA	N/A	N/A	8.72	8.71	950	
13C7 PFUdA	N/A	N/A	9.24	9.22	3563	
13C2 PFDoA	N/A	N/A	9.94	9.90	1308	
13C2 PFTeDA	N/A	N/A	11.27	11.21	1861	
13C3 HFPO-DA	N/A	N/A	6.06	6.09	1314	
d7-N-MeFOSE	N/A	N/A	12.53	12.49	160	R
d9-N-EtFOSE	N/A	N/A	12.99	12.96	148	R
d3-N-MeFOSA	N/A	N/A	12.77	12.70	7	R
d5-N-EtFOSA	N/A	N/A	0.00	13.11	ND	R

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 Column ID 1071B00011
 Ical ID 220629A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.31	4.33	125	
PFPeA	N/A	N/A	5.10	5.12	434	
HFPO-DA	0.28	0.30	6.07	6.10	744	
PFBS	0.42	0.40	6.04	6.07	1263	
PFHxA	0.07	0.08	5.79	5.82	260	
4:2 FTS	0.98	0.92	5.50	5.53	2171	
PFPeS	0.43	0.43	6.83	6.86	1385	
PFHpA	0.30	0.30	6.47	6.50	18	
DONA	0.54	0.57	6.72	6.75	1403	
PFHxS	0.36	0.37	7.58	7.60	1772	
PFOA	0.36	0.39	7.16	7.18	256	
6:2 FTS	0.84	0.87	6.80	6.82	435	
PFHpS	0.40	0.38	8.32	8.32	1870	
PFNA	0.14	0.15	7.85	7.86	540	
PFOSAm	N/A	N/A	10.84	10.78	433	
PFOS	0.41	0.40	9.04	9.03	436	
MeFOSA	0.00	0.56	0.00	12.73	ND	R
PFDA	0.17	0.19	8.55	8.58	286	
EtFOSAm	0.00	0.61	0.00	13.10	ND	R
8:2 FTS	0.90	1.10	8.15	8.15	4753	
9-Cl-PF3ON	0.07	0.05	9.56	9.52	1313	
PFNS	0.51	0.47	9.75	9.74	1364	
PFUnDA	0.16	0.13	9.25	9.22	432	
NMeFOSAA	0.90	0.76	8.41	8.41	9516	
NEtFOSAA	0.66	0.72	8.73	8.72	320	
PFDS	0.35	0.32	10.42	10.41	1338	
PFDOA	0.18	0.19	9.94	9.92	345	
MeFOSE	N/A	N/A	12.58	12.52	98	
EtFOSE	0.00	0.00	13.03	12.99	54	
11-Cl-PF3OUdS	0.02	0.02	10.90	10.87	719	
PFTrDA	0.14	0.16	10.62	10.59	337	
PFDoS	0.45	0.46	11.67	11.61	4012	
PFTDA	0.24	0.24	11.27	11.21	302	

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