

December 14, 2018

Jeff Ackerman
Project Manager
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

RE: Transmittal of Groundwater Monitoring Results – October/November 2018
Getzen Musical Instruments, Inc.
530 South County Highway H
Elkhorn, Wisconsin
BRRTS# 02-65-245978
FID# 265006720

Dear Mr. Ackerman:

This report documents the results of the second of two groundwater sample events completed in accordance with the *Site Investigation Work Plan* submitted to the Wisconsin Department of Natural Resources (WDNR) on April 13, 2018 and approved by WDNR in an electronic correspondence dated May 1, 2018. This report is submitted in general accordance with NR 724.17(3)(m) (“Long-term monitoring”).

Groundwater Monitoring Well Network

The groundwater monitoring well network, including Site and off-Site groundwater monitoring wells, is depicted on attached **Figure 1**. The groundwater monitoring well network will be evaluated during groundwater monitoring and any changes, including the rationale for the changes, will be documented in subsequent reports.

Sampling Methods

Groundwater samples were collected using low-flow sampling methods in general accordance with the *Groundwater Sampling Desk Reference* (WDNR 1996). Prior to sampling, each monitoring well was opened and the static groundwater level was measured with an electronic water level indicator.

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Collected groundwater samples were immediately placed in laboratory supplied containers and placed in a cooler with ice for submittal to the laboratory. The samples were submitted to Pace Analytical Services, Inc. (Pace) under standard chain of custody procedures.

The groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA method 8260. All groundwater samples except MW-1, MW-11, MW-12, and MW-13, were also analyzed for total organic carbon (TOC) using EPA method 9060, and methane, ethane and ethene using EPA method 8015B.

Quality control samples included one duplicate sample (MW-2) and a trip blank. The quality control samples were submitted for VOC analysis.

Results

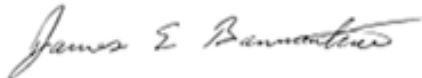
The groundwater elevation data are summarized in attached **Table 1** and a groundwater table elevation contour map is provided as attached **Figure 1**.

The laboratory analytical results are summarized in attached **Table 2** and the laboratory analytical report is attached. **Table 2** provides a comparison of the laboratory analytical results to NR 140 groundwater quality standards.

The duplicate sample results were within 10% of the primary sample results for each of the detected compounds in the duplicate samples, except for 1-1 dichloroethene, 1-2 dichloropropane and vinyl chloride which were within 27%, 18% and 12% respectively of the primary sample. VOCs were not detected in the trip blank, verifying that the samples were free from contamination during transport.

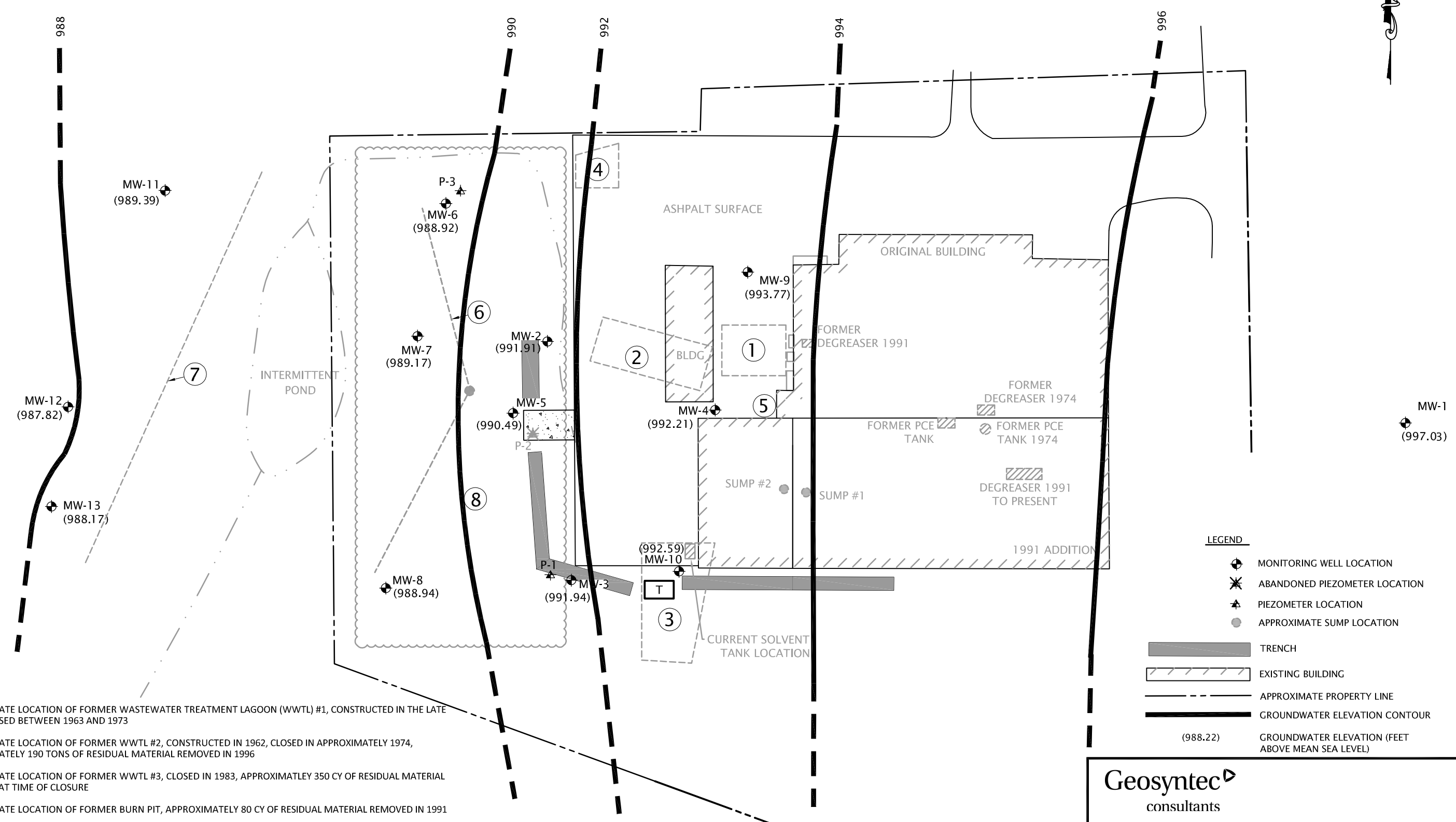
Please contact us with any questions.

Sincerely,



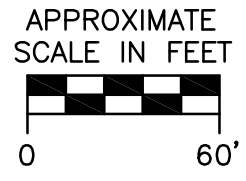
Jim Bannantine, P.G.
Senior Geologist

cc: Brett Getzen, President, Getzen Musical Instruments, Inc.
Jeff Ackerman, Wisconsin Department of Natural Resources
Attachments: as noted



- LEGEND**
- MONITORING WELL LOCATION
 - ABANDONED PIEZOMETER LOCATION
 - PIEZOMETER LOCATION
 - APPROXIMATE SUMP LOCATION
 - TRENCH
 - EXISTING BUILDING
 - APPROXIMATE PROPERTY LINE
 - GROUNDWATER ELEVATION CONTOUR
 - (988.22) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

- NOTES:**
- ① APPROXIMATE LOCATION OF FORMER WASTEWATER TREATMENT LAGOON (WWTL) #1, CONSTRUCTED IN THE LATE 1950s, CLOSED BETWEEN 1963 AND 1973
 - ② APPROXIMATE LOCATION OF FORMER WWTL #2, CONSTRUCTED IN 1962, CLOSED IN APPROXIMATELY 1974, APPROXIMATELY 190 TONS OF RESIDUAL MATERIAL REMOVED IN 1996
 - ③ APPROXIMATE LOCATION OF FORMER WWTL #3, CLOSED IN 1983, APPROXIMATELY 350 CY OF RESIDUAL MATERIAL REMOVED AT TIME OF CLOSURE
 - ④ APPROXIMATE LOCATION OF FORMER BURN PIT, APPROXIMATELY 80 CY OF RESIDUAL MATERIAL REMOVED IN 1991
 - ⑤ APPROXIMATE LOCATION OF FORMER SUMP DISCHARGE, PRACTICE CEASED IN 1992 WHEN PCE DETECTED IN SUMP DISCHARGE
 - ⑥ APPROXIMATE LOCATION OF FORMER GROUNDWATER EXTRACTION SYSTEM (COLLECTION TRENCH AND EXTRACTION WELL), INSTALLED IN 1996, OPERATED BETWEEN JULY 1997 AND FEBRUARY 1998
 - ⑦ APPROXIMATE LOCATION OF OXYGEN RELEASE COMPOUND (ORC) APPLICATION (WITHIN 62 BORINGS)
 - ⑧ LOCATION OF 200 POPULAR TREES PLANTED IN 2003 (PHYTOREMEDIATION AREA)



Geosyntec consultants		
CLIENT:	GETZEN COMPANY, INC.	
PROJECT:	GETZEN COMPANY, INC. SITE 530 SOUTH COUNTY HIGHWAY H ELKHORN, WISCONSIN	
TITLE:	OCT-NOV 2018 GROUNDWATER ELEVATION CONTOUR MAP	
PROJECT: CHW8297	FIGURE NO.: 1	DRAWING NO.: 1 OF 1
DATE: December 3, 2018	FILE NO.: 2018-05 G 020	

TABLE 1
Summary of October/November 2018 Groundwater Elevation Measurements
The Getzen Company
Elkhorn, Wisconsin
BRRTS# 02-65-245978

Location	Date	Northing (ft)	Easting (ft)	TOC Elevation	Ground Elevation	Well Depth	Screen Length	Groundwater Depth TOC	Groundwater Elevation
MW-1	10/30/2018	244,900.86	2,397,624.78	1002.16	999.17	17.28	10.00	5.13	997.03
MW-2	10/30/2018	244,948.88	2,397,133.69	996.03	993.11	17.66	10.00	4.12	991.91
MW-3	10/30/2018	244,805.80	2,397,145.55	997.3	994.18	19.19	10.00	5.36	991.94
MW-4	10/30/2018	244,907.34	2,397,242.08	993.78	995.50	17.10	10.00	1.57	992.21
MW-5	10/30/2018	244,904.27	2,397,114.88	995.71	993.13	16.65	10.00	5.22	990.49
MW-6	10/30/2018	245,030.60	2,397,063.14	994.52	991.95	17.20	10.00	5.60	988.92
MW-7	10/30/2018	244,955.66	2,397,049.48	994.94	992.23	17.65	10.00	5.77	989.17
MW-8	10/30/2018	244,803.49	2,397,023.68	993.83	991.53	17.05	10.00	4.89	988.94
MW-9	10/30/2018	244,987.69	2,397,262.54	995.88	996.24	12.60	10.00	2.11	993.77
MW-10	10/30/2018	244,812.89	2,397,215.06	996.65	996.64	13.95	10.00	4.06	992.59
MW-11	10/30/2018	245,036.26	2,396,911.18	994.27	991.78	18.24	10.00	4.88	989.39
MW-12	10/30/2018	244,919.04	2,396,818.86	993.88	991.21	18.17	10.00	6.06	987.82
MW-13	10/30/2018	244,859.28	2,396,806.74	993.55	990.55	18.44	10.00	5.38	988.17
P-1	10/30/2018	244,807.81	2,397,132.69	995.47	992.85	32.25	5.00	3.83	991.64
P-3	10/30/2018	245,039.07	2,397,063.45	994.61	992.03	32.25	5.00	3.75	990.86

TABLE 2
SUMMARY OF OCTOBER/NOVEMBER 2018
GROUNDWATER SAMPLE ANALYTICAL RESULTS

Getzen Company
530 County Highway H
Elkhorn, Wisconsin
BRRTS# 02-65-245978

Date	Groundwater Quality Standards		10/30/2018	11/1/2018	11/1/2018	10/31/2018	11/1/2018	11/1/2018	10/31/2018	10/31/2018	11/1/2018	11/1/2018	10/30/2018	10/30/2018	10/30/2018	10/31/2018	10/31/2018	10/31/2018	
Well No.	ES ¹	PAL ²	MW-1	MW-2	MW-2 DUP	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	P-1	P-3	TRIP BLANK
Well Screen Interval (feet bgs)	(ug/L)	(ug/L)	7-17	7-17	7-17	9-19	7-17	6-16	7-17	7-17	7-17	2-12	3-13	8-18	8-18	8-18	22-32	22-32	
Detected VOCs (ug/L)																			
Benzene	5	0.5	< 0.25 U	< 24.6 U	< 24.6 U	< 2.5 U	< 0.49 U	< 9.9 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 24.6 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U
Bromobenzene	NS	NS	< 0.24 U	< 24.1 U	< 24.1 U	< 2.4 U	< 0.48 U	< 9.6 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 24.1 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
Bromochloromethane	NS	NS	< 0.36 U	< 36.2 U	< 36.2 U	< 3.6 U	< 0.72 U	< 14.5 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 36.2 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Bromodichloromethane	0.6	0.1	< 0.36 U	< 36.4 U	< 36.4 U	< 3.6 U	< 0.73 U	< 14.5 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 36.4 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U
Bromofrom	4	0.4	< 4.0 U	< 397 U	< 397 U	< 39.7 U	< 7.9 U	< 159 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 397 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U	< 4.0 U
Bromomethane	10	1	< 0.97 U	< 97.1 U	< 97.1 U	< 9.7 U	< 1.9 U	< 38.9 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 97.1 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U
n-Butylbenzene	NS	NS	< 0.71 U	< 70.8 U	< 70.8 U	< 7.1 U	< 1.4 U	< 28.3 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 70.8 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U
sec-Butylbenzene	NS	NS	< 0.85 U	< 84.9 U	< 84.9 U	< 8.5 U	< 1.7 U	< 33.9 U	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U	< 84.9 U	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U	< 0.85 U
tert-Butylbenzene	NS	NS	< 0.30 U	< 30.4 U	< 30.4 U	< 3.0 U	< 0.61 U	< 12.2 U	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	< 30.4 U	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U
Carbon tetrachloride	5	0.5	< 0.17 U	< 16.6 U	< 16.6 U	< 1.7 U	< 0.33 U	< 6.6 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 16.6 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U
Chlorobenzene	NS	NS	< 0.71 U	< 71.1 U	< 71.1 U	< 7.1 U	< 1.4 U	< 28.4 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 71.1 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U
Chloroethane	400	80	< 1.3 U	< 134 U	< 134 U	< 13.4 U	< 3.0 U	< 53.7 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 134 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Chloroform	6	1	< 1.3 U	< 127 U	< 127 U	< 12.7 U	< 2.5 U	< 51.0 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 127 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U
Chloromethane	30	3	< 2.2 U	< 219 U	< 219 U	< 21.9 U	< 4.4 U	< 87.6 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 219 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U	< 2.2 U
2-Chlorotoluene	NS	NS	< 0.93 U	< 92.6 U	< 92.6 U	< 9.3 U	< 1.9 U	< 37.0 U	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	< 92.6 U	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U
4-Chlorotoluene	NS	NS	< 0.76 U	< 75.6 U	< 75.6 U	< 7.6 U	< 1.5 U	< 30.3 U	< 0.76 U	< 0.76 U	< 0.76 U	< 0.76 U	< 75.6 U	< 0.76 U	< 0.76 U	< 0.76 U	< 0.76 U	< 0.76 U	< 0.76 U
1,2-Dibromo-3-chloropropane	0	0	< 1.8 U	< 176 U	< 176 U	< 17.6 U	< 3.5 U	< 70.5 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 176 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U
Dibromochloromethane	60	6	< 2.6 U	< 260 U	< 260 U	< 26.0 U	< 5.2 U	< 104 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 260 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U	< 2.6 U
1,2-Dibromomethane (EDB)	0	0	< 0.83 U	< 82.9 U	< 82.9 U	< 8.3 U	< 1.7 U	< 33.2 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 82.9 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U
Dibromomethane	NS	NS	< 0.94 U	< 93.7 U	< 93.7 U	< 9.4 U	< 1.9 U	< 37.5 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	< 93.7 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U
1,2-Dichlorobenzene	600	60	< 0.71 U	< 70.5 U	< 70.5 U	< 7.1 U	< 1.4 U	< 28.2 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 70.5 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U	< 0.71 U
1,3-Dichlorobenzene	1,250	125	< 0.63 U	< 62.8 U	< 62.8 U	< 6.3 U	< 1.3 U	< 25.1 U	< 0.63 U	< 0.63 U	< 0.63 U	< 0.63 U	< 62.8 U	< 0.63 U	< 0.63 U	< 0.63 U	< 0.63 U	< 0.63 U	< 0.63 U
1,4-Dichlorobenzene	75	15	< 0.94 U	< 94.4 U	< 94.4 U	< 9.4 U	< 1.9 U	< 37.7 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	< 94.4 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U
Dichlorodifluoromethane	1,000	200	< 0.50 U	< 50.0 U	< 50.0 U	< 5.0 U	< 1.0 U	< 20.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 50.0 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,1-Dichloroethane	850	85	< 0.27 U	< 27.3 U	< 27.3 U	< 2.7 U	< 0.55 U	< 10.9 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 27.3 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U
1,2-Dichloroethane	5	0.5	< 0.28 U	< 243 U	< 238 U	< 2.8 U	< 5.3 U	< 11.2 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 243 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U
1,1-Dichloroethene	7	0.7	< 0.24 U	< 38.0 U	< 52.0 U	< 2.4 U	< 1.1 U	< 9.8 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 38.0 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U	< 0.24 U
cis-1,2-Dichloroethene	70	7	< 0.27 U	< 8.110 U	< 8.160 U	< 0.27 U	< 1.3 U	< 5.98 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 8.110 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U	< 0.27 U
trans-1,2-Dichloroethene	100	20	< 1.1 U	< 109 U	< 109 U	< 10.9 U	< 2.2 U	< 43.6 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 109 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U
1,2-Dichloropropane	5	0.5	< 0.28 U	< 29.7 U	< 36.4 U	< 2.9 U	< 0.77 U	< 158 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 29.7 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U	< 0.28 U
1,3-Dichloropropane	NS	NS	< 0.83 U	< 82.6 U	< 82.6 U	< 8.3 U	< 1.7 U	< 33.0 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 82.6 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U	< 0.83 U
2,2-Dichloropropane	NS	NS	< 2.3 U	< 227 U	< 227 U	< 22.7 U	< 4.5 U	< 90.6 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 227 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U	< 2.3 U
1,1-Dichloropropene	NS	NS	< 0.54 U	< 54.0 U	< 54.0 U	< 5.4 U	< 1.1 U	< 21.6 U	< 0.54 U	< 0.54 U	< 0.54 U	< 0.54 U	< 54.0 U	< 0.54 U	< 0.54 U	< 0.54 U	< 0.54 U	< 0.54 U	< 0.54 U
cis-1,3-Dichloropropene	0.2	0.02	< 3.6 U	< 363 U	< 363 U	< 36.3 U	< 7.3 U	< 145 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 363 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U	< 3.6 U
trans-1,3-Dichloropropene	0.2	0.02	< 4.4 U	< 437 U	< 437 U	< 43.7 U	< 8.7 U	< 175 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 437 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U	< 4.4 U
Diisopropyl ether	NS	NS	< 1.9 U	< 189 U	< 189 U	< 18.9 U	< 3.8 U	< 75.5 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 189 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U
Ethylbenzene	700	140	< 0.22 U	< 21.8 U	< 21.8 U	< 2.2 U	< 0.44 U	< 8.7 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 21.8 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U	< 0.22 U
Hexachloro-1,3-butadiene	NS	NS	< 1.2 U	< 118 U	< 118 U	< 11.8 U	< 2.4 U	< 47.3 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 118 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
Isopropylbenzene (Cumene)	NS	NS	< 0.39 U	< 39.3 U	< 39.3 U	< 3.9 U	< 0.79 U	< 15.7 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 39.3 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U
p-Isopropyltoluene	NS	NS	< 0.80 U	< 80.0 U	< 80.0 U	< 8.0 U	< 1.6 U	< 32.0 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 80.0 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U	< 0.80 U
Methylene Chloride	5	1	< 0.58 U	< 58.1 U	< 58.1 U	< 5.8 U	< 1.2 U	< 23.2 U	< 0.58 U	< 0.58 U	< 0.58 U	< 0.58 U	< 58.1 U	< 0.58 U	< 0.58 U	< 0.58 U	< 0.58 U	< 0.58 U	< 0.58 U
Methyl-tert-butyl ether	60	12	< 1.2 U	< 125 U	< 125 U	< 12.5 U	< 2.5 U	< 49.8 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 125 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
Naphthalene	100	10	< 1.2 U	< 118 U	< 118 U	< 11.8 U	< 2.4 U	< 47.0 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 118 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U

November 27, 2018

Jim Bannantine
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

Dear Jim Bannantine:

Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: WE Energies Lab Reports, WE Energies
Emma Macalister, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Green Bay Certification IDs

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

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512

Minnesota Department of Health, Certificate #1385941

Arkansas Department of Environmental Quality, Certificate #18-046-0

Georgia Environmental Protection Division, Stipulation

Illinois Environmental Protection Agency, Certificate

#004325

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #57971 and 57972

North Carolina Division of Water Resources, Certificate #659

Virginia Department of General Services, Certificate #9780

Wisconsin Department of Natural Resources, Laboratory #999472650

U.S. Department of Agriculture Permit to Receive Soil, Permit #P330-17-00278

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178922001	MW-1	Water	10/30/18 16:05	11/02/18 14:55
40178922002	MW-2	Water	11/01/18 09:00	11/02/18 14:55
40178922003	MW-2 DUP	Water	11/01/18 09:00	11/02/18 14:55
40178922004	MW-3	Water	10/31/18 12:05	11/02/18 14:55
40178922005	MW-4	Water	11/01/18 13:05	11/02/18 14:55
40178922006	MW-5	Water	11/01/18 10:00	11/02/18 14:55
40178922007	MW-6	Water	10/31/18 15:40	11/02/18 14:55
40178922008	MW-7	Water	10/31/18 14:15	11/02/18 14:55
40178922009	MW-8	Water	10/31/18 10:10	11/02/18 14:55
40178922010	MW-9	Water	11/01/18 12:00	11/02/18 14:55
40178922011	MW-10	Water	11/01/18 10:55	11/02/18 14:55
40178922012	P-1	Water	10/31/18 11:10	11/02/18 14:55
40178922013	P-3	Water	10/31/18 13:20	11/02/18 14:55
40178922014	TRIP BLANK	Water	10/31/18 00:00	11/02/18 14:55

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SAMPLE ANALYTE COUNT

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40178922001	MW-1	EPA 8260	LAP	64	PASI-G
40178922002	MW-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922003	MW-2 DUP	EPA 8260	HNW	64	PASI-G
40178922004	MW-3	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922005	MW-4	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922006	MW-5	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922007	MW-6	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922008	MW-7	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922009	MW-8	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922010	MW-9	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922011	MW-10	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922012	P-1	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922013	P-3	EPA 8015B Modified	ALD	3	PASI-G
		EPA 8260	HNW	64	PASI-G
		SM 5310C-11	MAD	1	PASI-GRMI
40178922014	TRIP BLANK	EPA 8260	LAP	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-1 **Lab ID: 40178922001** Collected: 10/30/18 16:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/06/18 10:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/06/18 10:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/06/18 10:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/06/18 10:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/06/18 10:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/06/18 10:01	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:01	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/06/18 10:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/06/18 10:01	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/06/18 10:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/06/18 10:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/06/18 10:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/06/18 10:01	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/06/18 10:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/06/18 10:01	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/06/18 10:01	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/06/18 10:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/06/18 10:01	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/06/18 10:01	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:01	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/06/18 10:01	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/06/18 10:01	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/06/18 10:01	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 10:01	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:01	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/06/18 10:01	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/06/18 10:01	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/06/18 10:01	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:01	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/06/18 10:01	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/06/18 10:01	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/06/18 10:01	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/06/18 10:01	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/06/18 10:01	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/06/18 10:01	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/06/18 10:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/06/18 10:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/06/18 10:01	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/06/18 10:01	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/06/18 10:01	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/06/18 10:01	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/06/18 10:01	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/06/18 10:01	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/06/18 10:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 10:01	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-1 Lab ID: 40178922001 Collected: 10/30/18 16:05 Received: 11/02/18 14:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:01	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/06/18 10:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/06/18 10:01	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/06/18 10:01	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/06/18 10:01	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/06/18 10:01	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/06/18 10:01	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/06/18 10:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/06/18 10:01	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/06/18 10:01	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/06/18 10:01	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/06/18 10:01	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/06/18 10:01	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/06/18 10:01	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/06/18 10:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		11/06/18 10:01	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/06/18 10:01	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		11/06/18 10:01	2037-26-5	

Sample: MW-2 Lab ID: 40178922002 Collected: 11/01/18 09:00 Received: 11/02/18 14:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	168	ug/L	5.6	0.58	1		11/09/18 09:21	74-84-0	
Ethene	318	ug/L	5.0	0.52	1		11/09/18 09:21	74-85-1	
Methane	3920	ug/L	70.0	34.2	25		11/09/18 10:55	74-82-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<24.6	ug/L	100	24.6	100		11/07/18 11:31	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		11/07/18 11:31	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		11/07/18 11:31	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		11/07/18 11:31	75-27-4	
Bromoform	<397	ug/L	1320	397	100		11/07/18 11:31	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		11/07/18 11:31	74-83-9	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		11/07/18 11:31	104-51-8	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		11/07/18 11:31	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		11/07/18 11:31	98-06-6	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		11/07/18 11:31	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		11/07/18 11:31	108-90-7	
Chloroethane	<134	ug/L	500	134	100		11/07/18 11:31	75-00-3	
Chloroform	<127	ug/L	500	127	100		11/07/18 11:31	67-66-3	
Chloromethane	<219	ug/L	730	219	100		11/07/18 11:31	74-87-3	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-2 **Lab ID: 40178922002** Collected: 11/01/18 09:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		11/07/18 11:31	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		11/07/18 11:31	106-43-4	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		11/07/18 11:31	96-12-8	
Dibromochloromethane	<260	ug/L	867	260	100		11/07/18 11:31	124-48-1	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		11/07/18 11:31	106-93-4	
Dibromomethane	<93.7	ug/L	312	93.7	100		11/07/18 11:31	74-95-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		11/07/18 11:31	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		11/07/18 11:31	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		11/07/18 11:31	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		11/07/18 11:31	75-71-8	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		11/07/18 11:31	75-34-3	
1,2-Dichloroethane	243	ug/L	100	28.0	100		11/07/18 11:31	107-06-2	
1,1-Dichloroethene	38.0J	ug/L	100	24.5	100		11/07/18 11:31	75-35-4	
cis-1,2-Dichloroethene	8110	ug/L	100	27.1	100		11/07/18 11:31	156-59-2	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		11/07/18 11:31	156-60-5	
1,2-Dichloropropane	29.7J	ug/L	100	28.3	100		11/07/18 11:31	78-87-5	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		11/07/18 11:31	142-28-9	
2,2-Dichloropropane	<227	ug/L	755	227	100		11/07/18 11:31	594-20-7	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		11/07/18 11:31	563-58-6	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		11/07/18 11:31	10061-01-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		11/07/18 11:31	10061-02-6	
Diisopropyl ether	<189	ug/L	629	189	100		11/07/18 11:31	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		11/07/18 11:31	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		11/07/18 11:31	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		11/07/18 11:31	98-82-8	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		11/07/18 11:31	99-87-6	
Methylene Chloride	<58.1	ug/L	500	58.1	100		11/07/18 11:31	75-09-2	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		11/07/18 11:31	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		11/07/18 11:31	91-20-3	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		11/07/18 11:31	103-65-1	
Styrene	<46.5	ug/L	155	46.5	100		11/07/18 11:31	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		11/07/18 11:31	630-20-6	
1,1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		11/07/18 11:31	79-34-5	
Tetrachloroethene	3870	ug/L	109	32.6	100		11/07/18 11:31	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		11/07/18 11:31	108-88-3	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		11/07/18 11:31	87-61-6	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/07/18 11:31	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		11/07/18 11:31	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		11/07/18 11:31	79-00-5	
Trichloroethene	2560	ug/L	100	25.5	100		11/07/18 11:31	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		11/07/18 11:31	75-69-4	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		11/07/18 11:31	96-18-4	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		11/07/18 11:31	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		11/07/18 11:31	108-67-8	
Vinyl chloride	1280	ug/L	100	17.5	100		11/07/18 11:31	75-01-4	
m&p-Xylene	<46.5	ug/L	200	46.5	100		11/07/18 11:31	179601-23-1	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-2 Lab ID: 40178922002 Collected: 11/01/18 09:00 Received: 11/02/18 14:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
o-Xylene	<26.2	ug/L	100	26.2	100		11/07/18 11:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		100		11/07/18 11:31	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		100		11/07/18 11:31	1868-53-7	
Toluene-d8 (S)	97	%	70-130		100		11/07/18 11:31	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	7.1	mg/L	1.0	0.50	1		11/13/18 18:02	7440-44-0	

Sample: MW-2 DUP Lab ID: 40178922003 Collected: 11/01/18 09:00 Received: 11/02/18 14:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<24.6	ug/L	100	24.6	100		11/07/18 11:52	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		11/07/18 11:52	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		11/07/18 11:52	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		11/07/18 11:52	75-27-4	
Bromoform	<397	ug/L	1320	397	100		11/07/18 11:52	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		11/07/18 11:52	74-83-9	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		11/07/18 11:52	104-51-8	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		11/07/18 11:52	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		11/07/18 11:52	98-06-6	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		11/07/18 11:52	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		11/07/18 11:52	108-90-7	
Chloroethane	<134	ug/L	500	134	100		11/07/18 11:52	75-00-3	
Chloroform	<127	ug/L	500	127	100		11/07/18 11:52	67-66-3	
Chloromethane	<219	ug/L	730	219	100		11/07/18 11:52	74-87-3	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		11/07/18 11:52	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		11/07/18 11:52	106-43-4	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		11/07/18 11:52	96-12-8	
Dibromochloromethane	<260	ug/L	867	260	100		11/07/18 11:52	124-48-1	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		11/07/18 11:52	106-93-4	
Dibromomethane	<93.7	ug/L	312	93.7	100		11/07/18 11:52	74-95-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		11/07/18 11:52	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		11/07/18 11:52	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		11/07/18 11:52	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		11/07/18 11:52	75-71-8	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		11/07/18 11:52	75-34-3	
1,2-Dichloroethane	238	ug/L	100	28.0	100		11/07/18 11:52	107-06-2	
1,1-Dichloroethene	52.0J	ug/L	100	24.5	100		11/07/18 11:52	75-35-4	
cis-1,2-Dichloroethene	8160	ug/L	100	27.1	100		11/07/18 11:52	156-59-2	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		11/07/18 11:52	156-60-5	
1,2-Dichloropropane	36.4J	ug/L	100	28.3	100		11/07/18 11:52	78-87-5	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-2 DUP **Lab ID: 40178922003** Collected: 11/01/18 09:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		11/07/18 11:52	142-28-9	
2,2-Dichloropropane	<227	ug/L	755	227	100		11/07/18 11:52	594-20-7	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		11/07/18 11:52	563-58-6	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		11/07/18 11:52	10061-01-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		11/07/18 11:52	10061-02-6	
Diisopropyl ether	<189	ug/L	629	189	100		11/07/18 11:52	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		11/07/18 11:52	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		11/07/18 11:52	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		11/07/18 11:52	98-82-8	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		11/07/18 11:52	99-87-6	
Methylene Chloride	<58.1	ug/L	500	58.1	100		11/07/18 11:52	75-09-2	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		11/07/18 11:52	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		11/07/18 11:52	91-20-3	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		11/07/18 11:52	103-65-1	
Styrene	<46.5	ug/L	155	46.5	100		11/07/18 11:52	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		11/07/18 11:52	630-20-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		11/07/18 11:52	79-34-5	
Tetrachloroethene	4180	ug/L	109	32.6	100		11/07/18 11:52	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		11/07/18 11:52	108-88-3	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		11/07/18 11:52	87-61-6	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/07/18 11:52	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		11/07/18 11:52	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		11/07/18 11:52	79-00-5	
Trichloroethene	2620	ug/L	100	25.5	100		11/07/18 11:52	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		11/07/18 11:52	75-69-4	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		11/07/18 11:52	96-18-4	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		11/07/18 11:52	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		11/07/18 11:52	108-67-8	
Vinyl chloride	1460	ug/L	100	17.5	100		11/07/18 11:52	75-01-4	
m&p-Xylene	<46.5	ug/L	200	46.5	100		11/07/18 11:52	179601-23-1	
o-Xylene	<26.2	ug/L	100	26.2	100		11/07/18 11:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		100		11/07/18 11:52	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		100		11/07/18 11:52	1868-53-7	
Toluene-d8 (S)	99	%	70-130		100		11/07/18 11:52	2037-26-5	

Sample: MW-3 **Lab ID: 40178922004** Collected: 10/31/18 12:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	2.0J	ug/L	5.6	0.58	1		11/09/18 09:28	74-84-0	
Ethene	2.7J	ug/L	5.0	0.52	1		11/09/18 09:28	74-85-1	
Methane	281	ug/L	2.8	1.4	1		11/09/18 09:28	74-82-8	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-3 **Lab ID: 40178922004** Collected: 10/31/18 12:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<2.5	ug/L	10.0	2.5	10		11/07/18 12:14	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		11/07/18 12:14	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		11/07/18 12:14	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		11/07/18 12:14	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		11/07/18 12:14	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		11/07/18 12:14	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		11/07/18 12:14	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		11/07/18 12:14	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		11/07/18 12:14	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		11/07/18 12:14	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		11/07/18 12:14	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		11/07/18 12:14	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		11/07/18 12:14	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		11/07/18 12:14	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		11/07/18 12:14	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		11/07/18 12:14	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		11/07/18 12:14	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		11/07/18 12:14	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		11/07/18 12:14	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		11/07/18 12:14	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		11/07/18 12:14	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		11/07/18 12:14	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		11/07/18 12:14	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		11/07/18 12:14	75-71-8	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		11/07/18 12:14	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		11/07/18 12:14	107-06-2	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		11/07/18 12:14	75-35-4	
cis-1,2-Dichloroethene	699	ug/L	10.0	2.7	10		11/07/18 12:14	156-59-2	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		11/07/18 12:14	156-60-5	
1,2-Dichloropropane	23.9	ug/L	10.0	2.8	10		11/07/18 12:14	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		11/07/18 12:14	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		11/07/18 12:14	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		11/07/18 12:14	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		11/07/18 12:14	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		11/07/18 12:14	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		11/07/18 12:14	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		11/07/18 12:14	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		11/07/18 12:14	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		11/07/18 12:14	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		11/07/18 12:14	99-87-6	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		11/07/18 12:14	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		11/07/18 12:14	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		11/07/18 12:14	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		11/07/18 12:14	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		11/07/18 12:14	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		11/07/18 12:14	630-20-6	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-3 **Lab ID: 40178922004** Collected: 10/31/18 12:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		11/07/18 12:14	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		11/07/18 12:14	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		11/07/18 12:14	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		11/07/18 12:14	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		11/07/18 12:14	120-82-1	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		11/07/18 12:14	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		11/07/18 12:14	79-00-5	
Trichloroethene	<2.6	ug/L	10.0	2.6	10		11/07/18 12:14	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		11/07/18 12:14	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		11/07/18 12:14	96-18-4	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		11/07/18 12:14	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		11/07/18 12:14	108-67-8	
Vinyl chloride	49.3	ug/L	10.0	1.7	10		11/07/18 12:14	75-01-4	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		11/07/18 12:14	179601-23-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		11/07/18 12:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		10		11/07/18 12:14	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		10		11/07/18 12:14	1868-53-7	
Toluene-d8 (S)	98	%	70-130		10		11/07/18 12:14	2037-26-5	

5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	1.4	mg/L	1.0	0.50	1		11/13/18 16:39	7440-44-0	

Sample: MW-4 **Lab ID: 40178922005** Collected: 11/01/18 13:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	11.2	ug/L	5.6	0.58	1		11/09/18 09:35	74-84-0	
Ethene	0.63J	ug/L	5.0	0.52	1		11/09/18 09:35	74-85-1	
Methane	696	ug/L	14.0	6.8	5		11/09/18 11:02	74-82-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.49	ug/L	2.0	0.49	2		11/07/18 12:35	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		11/07/18 12:35	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		11/07/18 12:35	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		11/07/18 12:35	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		11/07/18 12:35	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		11/07/18 12:35	74-83-9	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		11/07/18 12:35	104-51-8	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		11/07/18 12:35	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		11/07/18 12:35	98-06-6	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		11/07/18 12:35	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		11/07/18 12:35	108-90-7	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-4 Lab ID: 40178922005 Collected: 11/01/18 13:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Chloroethane	3.0J	ug/L	10.0	2.7	2		11/07/18 12:35	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		11/07/18 12:35	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		11/07/18 12:35	74-87-3	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		11/07/18 12:35	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		11/07/18 12:35	106-43-4	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		11/07/18 12:35	96-12-8	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		11/07/18 12:35	124-48-1	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		11/07/18 12:35	106-93-4	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		11/07/18 12:35	74-95-3	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		11/07/18 12:35	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		11/07/18 12:35	541-73-1	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		11/07/18 12:35	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		11/07/18 12:35	75-71-8	
1,1-Dichloroethane	<0.55	ug/L	2.0	0.55	2		11/07/18 12:35	75-34-3	
1,2-Dichloroethane	5.3	ug/L	2.0	0.56	2		11/07/18 12:35	107-06-2	
1,1-Dichloroethene	1.1J	ug/L	2.0	0.49	2		11/07/18 12:35	75-35-4	
cis-1,2-Dichloroethene	139	ug/L	2.0	0.54	2		11/07/18 12:35	156-59-2	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		11/07/18 12:35	156-60-5	
1,2-Dichloropropane	0.77J	ug/L	2.0	0.57	2		11/07/18 12:35	78-87-5	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		11/07/18 12:35	142-28-9	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		11/07/18 12:35	594-20-7	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		11/07/18 12:35	563-58-6	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		11/07/18 12:35	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		11/07/18 12:35	10061-02-6	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		11/07/18 12:35	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		11/07/18 12:35	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		11/07/18 12:35	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		11/07/18 12:35	98-82-8	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		11/07/18 12:35	99-87-6	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		11/07/18 12:35	75-09-2	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		11/07/18 12:35	1634-04-4	
Naphthalene	<2.4	ug/L	10.0	2.4	2		11/07/18 12:35	91-20-3	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		11/07/18 12:35	103-65-1	
Styrene	<0.93	ug/L	3.1	0.93	2		11/07/18 12:35	100-42-5	
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		11/07/18 12:35	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		11/07/18 12:35	79-34-5	
Tetrachloroethene	126	ug/L	2.2	0.65	2		11/07/18 12:35	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		11/07/18 12:35	108-88-3	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		11/07/18 12:35	87-61-6	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		11/07/18 12:35	120-82-1	
1,1,1-Trichloroethane	<0.49	ug/L	2.0	0.49	2		11/07/18 12:35	71-55-6	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		11/07/18 12:35	79-00-5	
Trichloroethene	67.3	ug/L	2.0	0.51	2		11/07/18 12:35	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		11/07/18 12:35	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		11/07/18 12:35	96-18-4	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		11/07/18 12:35	95-63-6	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-4 Lab ID: 40178922005 Collected: 11/01/18 13:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		11/07/18 12:35	108-67-8	
Vinyl chloride	33.4	ug/L	2.0	0.35	2		11/07/18 12:35	75-01-4	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		11/07/18 12:35	179601-23-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		11/07/18 12:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		2		11/07/18 12:35	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		2		11/07/18 12:35	1868-53-7	
Toluene-d8 (S)	99	%	70-130		2		11/07/18 12:35	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	2.2	mg/L	1.0	0.50	1		11/13/18 19:19	7440-44-0	

Sample: MW-5 Lab ID: 40178922006 Collected: 11/01/18 10:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	10.9	ug/L	5.6	0.58	1		11/09/18 09:42	74-84-0	
Ethene	4.4J	ug/L	5.0	0.52	1		11/09/18 09:42	74-85-1	
Methane	494	ug/L	11.2	5.5	4		11/09/18 11:09	74-82-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<9.9	ug/L	40.0	9.9	40		11/08/18 09:00	71-43-2	
Bromobenzene	<9.6	ug/L	40.0	9.6	40		11/08/18 09:00	108-86-1	
Bromochloromethane	<14.5	ug/L	200	14.5	40		11/08/18 09:00	74-97-5	
Bromodichloromethane	<14.5	ug/L	48.5	14.5	40		11/08/18 09:00	75-27-4	
Bromoform	<159	ug/L	530	159	40		11/08/18 09:00	75-25-2	
Bromomethane	<38.9	ug/L	200	38.9	40		11/08/18 09:00	74-83-9	
n-Butylbenzene	<28.3	ug/L	94.4	28.3	40		11/08/18 09:00	104-51-8	
sec-Butylbenzene	<33.9	ug/L	200	33.9	40		11/08/18 09:00	135-98-8	
tert-Butylbenzene	<12.2	ug/L	40.5	12.2	40		11/08/18 09:00	98-06-6	
Carbon tetrachloride	<6.6	ug/L	40.0	6.6	40		11/08/18 09:00	56-23-5	
Chlorobenzene	<28.4	ug/L	94.8	28.4	40		11/08/18 09:00	108-90-7	
Chloroethane	<53.7	ug/L	200	53.7	40		11/08/18 09:00	75-00-3	
Chloroform	<51.0	ug/L	200	51.0	40		11/08/18 09:00	67-66-3	
Chloromethane	<87.6	ug/L	292	87.6	40		11/08/18 09:00	74-87-3	
2-Chlorotoluene	<37.0	ug/L	200	37.0	40		11/08/18 09:00	95-49-8	
4-Chlorotoluene	<30.3	ug/L	101	30.3	40		11/08/18 09:00	106-43-4	
1,2-Dibromo-3-chloropropane	<70.5	ug/L	235	70.5	40		11/08/18 09:00	96-12-8	
Dibromochloromethane	<104	ug/L	347	104	40		11/08/18 09:00	124-48-1	
1,2-Dibromoethane (EDB)	<33.2	ug/L	111	33.2	40		11/08/18 09:00	106-93-4	
Dibromomethane	<37.5	ug/L	125	37.5	40		11/08/18 09:00	74-95-3	
1,2-Dichlorobenzene	<28.2	ug/L	94.0	28.2	40		11/08/18 09:00	95-50-1	
1,3-Dichlorobenzene	<25.1	ug/L	83.7	25.1	40		11/08/18 09:00	541-73-1	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-5 **Lab ID: 40178922006** Collected: 11/01/18 10:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,4-Dichlorobenzene	<37.7	ug/L	126	37.7	40		11/08/18 09:00	106-46-7	
Dichlorodifluoromethane	<20.0	ug/L	200	20.0	40		11/08/18 09:00	75-71-8	
1,1-Dichloroethane	<10.9	ug/L	40.0	10.9	40		11/08/18 09:00	75-34-3	
1,2-Dichloroethane	<11.2	ug/L	40.0	11.2	40		11/08/18 09:00	107-06-2	
1,1-Dichloroethene	<9.8	ug/L	40.0	9.8	40		11/08/18 09:00	75-35-4	
cis-1,2-Dichloroethene	598	ug/L	40.0	10.8	40		11/08/18 09:00	156-59-2	
trans-1,2-Dichloroethene	<43.6	ug/L	145	43.6	40		11/08/18 09:00	156-60-5	
1,2-Dichloropropane	158	ug/L	40.0	11.3	40		11/08/18 09:00	78-87-5	
1,3-Dichloropropane	<33.0	ug/L	110	33.0	40		11/08/18 09:00	142-28-9	
2,2-Dichloropropane	<90.6	ug/L	302	90.6	40		11/08/18 09:00	594-20-7	
1,1-Dichloropropene	<21.6	ug/L	72.0	21.6	40		11/08/18 09:00	563-58-6	
cis-1,3-Dichloropropene	<145	ug/L	484	145	40		11/08/18 09:00	10061-01-5	
trans-1,3-Dichloropropene	<175	ug/L	583	175	40		11/08/18 09:00	10061-02-6	
Diisopropyl ether	<75.5	ug/L	252	75.5	40		11/08/18 09:00	108-20-3	
Ethylbenzene	<8.7	ug/L	40.0	8.7	40		11/08/18 09:00	100-41-4	
Hexachloro-1,3-butadiene	<47.3	ug/L	200	47.3	40		11/08/18 09:00	87-68-3	
Isopropylbenzene (Cumene)	<15.7	ug/L	200	15.7	40		11/08/18 09:00	98-82-8	
p-Isopropyltoluene	<32.0	ug/L	107	32.0	40		11/08/18 09:00	99-87-6	
Methylene Chloride	<23.2	ug/L	200	23.2	40		11/08/18 09:00	75-09-2	
Methyl-tert-butyl ether	<49.8	ug/L	166	49.8	40		11/08/18 09:00	1634-04-4	
Naphthalene	<47.0	ug/L	200	47.0	40		11/08/18 09:00	91-20-3	
n-Propylbenzene	<32.4	ug/L	200	32.4	40		11/08/18 09:00	103-65-1	
Styrene	<18.6	ug/L	62.1	18.6	40		11/08/18 09:00	100-42-5	
1,1,1,2-Tetrachloroethane	<10.8	ug/L	40.0	10.8	40		11/08/18 09:00	630-20-6	
1,1,2,2-Tetrachloroethane	<11.0	ug/L	40.0	11.0	40		11/08/18 09:00	79-34-5	
Tetrachloroethene	3430	ug/L	43.5	13.1	40		11/08/18 09:00	127-18-4	
Toluene	<6.9	ug/L	200	6.9	40		11/08/18 09:00	108-88-3	
1,2,3-Trichlorobenzene	<25.0	ug/L	200	25.0	40		11/08/18 09:00	87-61-6	
1,2,4-Trichlorobenzene	<38.1	ug/L	200	38.1	40		11/08/18 09:00	120-82-1	
1,1,1-Trichloroethane	<9.8	ug/L	40.0	9.8	40		11/08/18 09:00	71-55-6	
1,1,2-Trichloroethane	<22.1	ug/L	200	22.1	40		11/08/18 09:00	79-00-5	
Trichloroethene	868	ug/L	40.0	10.2	40		11/08/18 09:00	79-01-6	
Trichlorofluoromethane	<8.6	ug/L	40.0	8.6	40		11/08/18 09:00	75-69-4	
1,2,3-Trichloropropane	<23.6	ug/L	200	23.6	40		11/08/18 09:00	96-18-4	
1,2,4-Trimethylbenzene	<33.6	ug/L	112	33.6	40		11/08/18 09:00	95-63-6	
1,3,5-Trimethylbenzene	<34.9	ug/L	116	34.9	40		11/08/18 09:00	108-67-8	
Vinyl chloride	40.2	ug/L	40.0	7.0	40		11/08/18 09:00	75-01-4	
m&p-Xylene	<18.6	ug/L	80.0	18.6	40		11/08/18 09:00	179601-23-1	
o-Xylene	<10.5	ug/L	40.0	10.5	40		11/08/18 09:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		40		11/08/18 09:00	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		40		11/08/18 09:00	1868-53-7	
Toluene-d8 (S)	98	%	70-130		40		11/08/18 09:00	2037-26-5	
5310C Total Organic Carbon		Analytical Method: SM 5310C-11							
Total Organic Carbon	1.6	mg/L	1.0	0.50	1		11/13/18 18:16	7440-44-0	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-6 **Lab ID: 40178922007** Collected: 10/31/18 15:40 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		11/09/18 09:49	74-84-0	
Ethene	0.66J	ug/L	5.0	0.52	1		11/09/18 09:49	74-85-1	
Methane	69.4	ug/L	2.8	1.4	1		11/09/18 09:49	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 10:48	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 10:48	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 10:48	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 10:48	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 10:48	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 10:48	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 10:48	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 10:48	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 10:48	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 10:48	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 10:48	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 10:48	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 10:48	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 10:48	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 10:48	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 10:48	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 10:48	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 10:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 10:48	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 10:48	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 10:48	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 10:48	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 10:48	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 10:48	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 10:48	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 10:48	107-06-2	
1,1-Dichloroethene	0.91J	ug/L	1.0	0.24	1		11/07/18 10:48	75-35-4	
cis-1,2-Dichloroethene	66.4	ug/L	1.0	0.27	1		11/07/18 10:48	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 10:48	156-60-5	
1,2-Dichloropropane	0.67J	ug/L	1.0	0.28	1		11/07/18 10:48	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 10:48	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 10:48	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 10:48	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 10:48	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 10:48	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 10:48	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 10:48	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 10:48	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 10:48	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 10:48	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 10:48	75-09-2	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

Sample: MW-6 **Lab ID: 40178922007** Collected: 10/31/18 15:40 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 10:48	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 10:48	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 10:48	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 10:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 10:48	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 10:48	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/07/18 10:48	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 10:48	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 10:48	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 10:48	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 10:48	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 10:48	79-00-5	
Trichloroethene	1.3	ug/L	1.0	0.26	1		11/07/18 10:48	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 10:48	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 10:48	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 10:48	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 10:48	108-67-8	
Vinyl chloride	10.9	ug/L	1.0	0.17	1		11/07/18 10:48	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 10:48	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 10:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/07/18 10:48	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		11/07/18 10:48	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/07/18 10:48	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	2.1	mg/L	1.0	0.50	1		11/13/18 17:48	7440-44-0	

Sample: MW-7 **Lab ID: 40178922008** Collected: 10/31/18 14:15 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		11/13/18 09:01	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		11/13/18 09:01	74-85-1	
Methane	81.1	ug/L	2.8	1.4	1		11/13/18 09:01	74-82-8	M1
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/06/18 09:14	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/06/18 09:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/06/18 09:14	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/06/18 09:14	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/06/18 09:14	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/06/18 09:14	74-83-9	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-7 Lab ID: 40178922008 Collected: 10/31/18 14:15 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 09:14	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/06/18 09:14	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/06/18 09:14	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/06/18 09:14	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 09:14	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/06/18 09:14	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/06/18 09:14	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/06/18 09:14	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/06/18 09:14	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/06/18 09:14	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/06/18 09:14	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/06/18 09:14	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/06/18 09:14	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/06/18 09:14	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 09:14	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/06/18 09:14	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/06/18 09:14	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/06/18 09:14	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 09:14	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 09:14	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/06/18 09:14	75-35-4	
cis-1,2-Dichloroethene	4.8	ug/L	1.0	0.27	1		11/06/18 09:14	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/06/18 09:14	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/06/18 09:14	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/06/18 09:14	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/06/18 09:14	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/06/18 09:14	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/06/18 09:14	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/06/18 09:14	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/06/18 09:14	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/06/18 09:14	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/06/18 09:14	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/06/18 09:14	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/06/18 09:14	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/06/18 09:14	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/06/18 09:14	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/06/18 09:14	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/06/18 09:14	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/06/18 09:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 09:14	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 09:14	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/06/18 09:14	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/06/18 09:14	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/06/18 09:14	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/06/18 09:14	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/06/18 09:14	71-55-6	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-7 **Lab ID: 40178922008** Collected: 10/31/18 14:15 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/06/18 09:14	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/06/18 09:14	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/06/18 09:14	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/06/18 09:14	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/06/18 09:14	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/06/18 09:14	108-67-8	
Vinyl chloride	2.6	ug/L	1.0	0.17	1		11/06/18 09:14	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/06/18 09:14	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/06/18 09:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		11/06/18 09:14	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		11/06/18 09:14	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/06/18 09:14	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	1.9	mg/L	1.0	0.50	1		11/13/18 17:07	7440-44-0	

Sample: MW-8 **Lab ID: 40178922009** Collected: 10/31/18 10:10 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	1.9J	ug/L	5.6	0.58	1		11/13/18 09:08	74-84-0	
Ethene	<1.3	ug/L	12.5	1.3	2.5		11/13/18 10:08	74-85-1	
Methane	545	ug/L	7.0	3.4	2.5		11/13/18 10:08	74-82-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 11:09	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 11:09	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 11:09	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 11:09	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 11:09	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 11:09	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 11:09	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 11:09	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 11:09	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 11:09	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 11:09	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 11:09	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 11:09	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 11:09	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 11:09	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 11:09	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 11:09	96-12-8	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-8 **Lab ID: 40178922009** Collected: 10/31/18 10:10 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 11:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 11:09	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 11:09	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 11:09	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 11:09	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 11:09	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 11:09	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 11:09	75-34-3	
1,2-Dichloroethane	4.6	ug/L	1.0	0.28	1		11/07/18 11:09	107-06-2	
1,1-Dichloroethene	0.61J	ug/L	1.0	0.24	1		11/07/18 11:09	75-35-4	
cis-1,2-Dichloroethene	245	ug/L	1.0	0.27	1		11/07/18 11:09	156-59-2	
trans-1,2-Dichloroethene	1.5J	ug/L	3.6	1.1	1		11/07/18 11:09	156-60-5	
1,2-Dichloropropane	12.9	ug/L	1.0	0.28	1		11/07/18 11:09	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 11:09	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 11:09	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 11:09	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 11:09	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 11:09	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 11:09	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 11:09	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 11:09	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 11:09	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 11:09	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 11:09	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 11:09	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 11:09	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 11:09	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 11:09	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 11:09	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 11:09	79-34-5	
Tetrachloroethene	0.62J	ug/L	1.1	0.33	1		11/07/18 11:09	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 11:09	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 11:09	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 11:09	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 11:09	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 11:09	79-00-5	
Trichloroethene	53.5	ug/L	1.0	0.26	1		11/07/18 11:09	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 11:09	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 11:09	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 11:09	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 11:09	108-67-8	
Vinyl chloride	62.5	ug/L	1.0	0.17	1		11/07/18 11:09	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 11:09	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 11:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/07/18 11:09	460-00-4	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-8 **Lab ID: 40178922009** Collected: 10/31/18 10:10 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	97	%	70-130		1		11/07/18 11:09	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/07/18 11:09	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	3.9	mg/L	1.0	0.50	1		11/13/18 16:12	7440-44-0	

Sample: MW-9 **Lab ID: 40178922010** Collected: 11/01/18 12:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		11/13/18 09:15	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		11/13/18 09:15	74-85-1	
Methane	<1.4	ug/L	2.8	1.4	1		11/13/18 09:15	74-82-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 14:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 14:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 14:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 14:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 14:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 14:01	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:01	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 14:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 14:01	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 14:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 14:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 14:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 14:01	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 14:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 14:01	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 14:01	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 14:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 14:01	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 14:01	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:01	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 14:01	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 14:01	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 14:01	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 14:01	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:01	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/07/18 14:01	75-35-4	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-9 Lab ID: 40178922010 Collected: 11/01/18 12:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	1.0	ug/L	1.0	0.27	1		11/07/18 14:01	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 14:01	156-60-5	
1,2-Dichloropropane	2.7	ug/L	1.0	0.28	1		11/07/18 14:01	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 14:01	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 14:01	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 14:01	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 14:01	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 14:01	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 14:01	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 14:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 14:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 14:01	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 14:01	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 14:01	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 14:01	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 14:01	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 14:01	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 14:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 14:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:01	79-34-5	
Tetrachloroethene	3.9	ug/L	1.1	0.33	1		11/07/18 14:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 14:01	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 14:01	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 14:01	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 14:01	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 14:01	79-00-5	
Trichloroethene	1.4	ug/L	1.0	0.26	1		11/07/18 14:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 14:01	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 14:01	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 14:01	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 14:01	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/07/18 14:01	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 14:01	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 14:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/07/18 14:01	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/07/18 14:01	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/07/18 14:01	2037-26-5	
5310C Total Organic Carbon		Analytical Method: SM 5310C-11							
Total Organic Carbon	0.99J	mg/L	1.0	0.50	1		11/13/18 19:05	7440-44-0	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-10 **Lab ID: 40178922011** Collected: 11/01/18 10:55 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	41.0	ug/L	5.6	0.58	1		11/13/18 09:22	74-84-0	
Ethene	58.6	ug/L	5.0	0.52	1		11/13/18 09:22	74-85-1	
Methane	3200	ug/L	70.0	34.2	25		11/13/18 10:14	74-82-8	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<24.6	ug/L	100	24.6	100		11/07/18 13:18	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		11/07/18 13:18	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		11/07/18 13:18	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		11/07/18 13:18	75-27-4	
Bromoform	<397	ug/L	1320	397	100		11/07/18 13:18	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		11/07/18 13:18	74-83-9	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		11/07/18 13:18	104-51-8	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		11/07/18 13:18	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		11/07/18 13:18	98-06-6	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		11/07/18 13:18	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		11/07/18 13:18	108-90-7	
Chloroethane	<134	ug/L	500	134	100		11/07/18 13:18	75-00-3	
Chloroform	<127	ug/L	500	127	100		11/07/18 13:18	67-66-3	
Chloromethane	<219	ug/L	730	219	100		11/07/18 13:18	74-87-3	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		11/07/18 13:18	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		11/07/18 13:18	106-43-4	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		11/07/18 13:18	96-12-8	
Dibromochloromethane	<260	ug/L	867	260	100		11/07/18 13:18	124-48-1	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		11/07/18 13:18	106-93-4	
Dibromomethane	<93.7	ug/L	312	93.7	100		11/07/18 13:18	74-95-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		11/07/18 13:18	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		11/07/18 13:18	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		11/07/18 13:18	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		11/07/18 13:18	75-71-8	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		11/07/18 13:18	75-34-3	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		11/07/18 13:18	107-06-2	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		11/07/18 13:18	75-35-4	
cis-1,2-Dichloroethene	4100	ug/L	100	27.1	100		11/07/18 13:18	156-59-2	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		11/07/18 13:18	156-60-5	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		11/07/18 13:18	78-87-5	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		11/07/18 13:18	142-28-9	
2,2-Dichloropropane	<227	ug/L	755	227	100		11/07/18 13:18	594-20-7	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		11/07/18 13:18	563-58-6	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		11/07/18 13:18	10061-01-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		11/07/18 13:18	10061-02-6	
Diisopropyl ether	<189	ug/L	629	189	100		11/07/18 13:18	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		11/07/18 13:18	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		11/07/18 13:18	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		11/07/18 13:18	98-82-8	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		11/07/18 13:18	99-87-6	
Methylene Chloride	<58.1	ug/L	500	58.1	100		11/07/18 13:18	75-09-2	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: MW-10 **Lab ID: 40178922011** Collected: 11/01/18 10:55 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methyl-tert-butyl ether	<125	ug/L	415	125	100		11/07/18 13:18	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		11/07/18 13:18	91-20-3	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		11/07/18 13:18	103-65-1	
Styrene	<46.5	ug/L	155	46.5	100		11/07/18 13:18	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		11/07/18 13:18	630-20-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		11/07/18 13:18	79-34-5	
Tetrachloroethene	83.0J	ug/L	109	32.6	100		11/07/18 13:18	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		11/07/18 13:18	108-88-3	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		11/07/18 13:18	87-61-6	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/07/18 13:18	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		11/07/18 13:18	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		11/07/18 13:18	79-00-5	
Trichloroethene	198	ug/L	100	25.5	100		11/07/18 13:18	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		11/07/18 13:18	75-69-4	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		11/07/18 13:18	96-18-4	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		11/07/18 13:18	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		11/07/18 13:18	108-67-8	
Vinyl chloride	888	ug/L	100	17.5	100		11/07/18 13:18	75-01-4	
m&p-Xylene	<46.5	ug/L	200	46.5	100		11/07/18 13:18	179601-23-1	
o-Xylene	<26.2	ug/L	100	26.2	100		11/07/18 13:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		100		11/07/18 13:18	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		100		11/07/18 13:18	1868-53-7	
Toluene-d8 (S)	99	%	70-130		100		11/07/18 13:18	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	4.6	mg/L	1.0	0.50	1		11/13/18 18:52	7440-44-0	

Sample: P-1 **Lab ID: 40178922012** Collected: 10/31/18 11:10 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		11/13/18 09:28	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		11/13/18 09:28	74-85-1	
Methane	12.7	ug/L	2.8	1.4	1		11/13/18 09:28	74-82-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 14:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 14:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 14:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 14:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 14:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 14:23	74-83-9	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: P-1 **Lab ID: 40178922012** Collected: 10/31/18 11:10 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:23	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 14:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 14:23	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 14:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 14:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 14:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 14:23	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 14:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 14:23	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 14:23	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 14:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 14:23	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 14:23	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:23	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 14:23	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 14:23	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 14:23	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 14:23	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:23	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/07/18 14:23	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/07/18 14:23	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 14:23	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:23	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 14:23	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 14:23	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 14:23	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 14:23	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 14:23	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 14:23	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 14:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 14:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 14:23	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 14:23	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 14:23	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 14:23	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 14:23	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 14:23	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 14:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 14:23	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:23	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/07/18 14:23	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 14:23	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 14:23	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 14:23	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 14:23	71-55-6	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: P-1 **Lab ID: 40178922012** Collected: 10/31/18 11:10 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 14:23	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/07/18 14:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 14:23	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 14:23	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 14:23	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 14:23	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/07/18 14:23	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 14:23	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 14:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/07/18 14:23	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		11/07/18 14:23	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/07/18 14:23	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	0.56J	mg/L	1.0	0.50	1		11/13/18 16:26	7440-44-0	

Sample: P-3 **Lab ID: 40178922013** Collected: 10/31/18 13:20 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		11/13/18 09:35	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		11/13/18 09:35	74-85-1	
Methane	6.5	ug/L	2.8	1.4	1		11/13/18 09:35	74-82-8	
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 14:44	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 14:44	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 14:44	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 14:44	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 14:44	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 14:44	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:44	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 14:44	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 14:44	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 14:44	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:44	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 14:44	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 14:44	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 14:44	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 14:44	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 14:44	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 14:44	96-12-8	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: P-3 **Lab ID: 40178922013** Collected: 10/31/18 13:20 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 14:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 14:44	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 14:44	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 14:44	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 14:44	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 14:44	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 14:44	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 14:44	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:44	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/07/18 14:44	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/07/18 14:44	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 14:44	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:44	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 14:44	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 14:44	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 14:44	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 14:44	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 14:44	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 14:44	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 14:44	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 14:44	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 14:44	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 14:44	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 14:44	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 14:44	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 14:44	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 14:44	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 14:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 14:44	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 14:44	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/07/18 14:44	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 14:44	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 14:44	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 14:44	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 14:44	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 14:44	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/07/18 14:44	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 14:44	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 14:44	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 14:44	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 14:44	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/07/18 14:44	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 14:44	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 14:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/07/18 14:44	460-00-4	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: P-3 Lab ID: 40178922013 Collected: 10/31/18 13:20 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	96	%	70-130		1		11/07/18 14:44	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/07/18 14:44	2037-26-5	
5310C Total Organic Carbon Analytical Method: SM 5310C-11									
Total Organic Carbon	0.54J	mg/L	1.0	0.50	1		11/13/18 16:53	7440-44-0	

Sample: TRIP BLANK Lab ID: 40178922014 Collected: 10/31/18 00:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/06/18 08:51	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/06/18 08:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/06/18 08:51	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/06/18 08:51	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/06/18 08:51	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/06/18 08:51	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 08:51	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/06/18 08:51	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/06/18 08:51	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/06/18 08:51	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 08:51	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/06/18 08:51	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/06/18 08:51	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/06/18 08:51	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/06/18 08:51	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/06/18 08:51	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/06/18 08:51	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/06/18 08:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/06/18 08:51	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/06/18 08:51	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 08:51	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/06/18 08:51	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/06/18 08:51	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/06/18 08:51	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 08:51	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 08:51	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/06/18 08:51	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/06/18 08:51	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/06/18 08:51	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/06/18 08:51	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/06/18 08:51	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/06/18 08:51	594-20-7	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Sample: TRIP BLANK **Lab ID: 40178922014** Collected: 10/31/18 00:00 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/06/18 08:51	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/06/18 08:51	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/06/18 08:51	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/06/18 08:51	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/06/18 08:51	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/06/18 08:51	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/06/18 08:51	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/06/18 08:51	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/06/18 08:51	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/06/18 08:51	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/06/18 08:51	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/06/18 08:51	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/06/18 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 08:51	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 08:51	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/06/18 08:51	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/06/18 08:51	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/06/18 08:51	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/06/18 08:51	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/06/18 08:51	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/06/18 08:51	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/06/18 08:51	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/06/18 08:51	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/06/18 08:51	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/06/18 08:51	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/06/18 08:51	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/06/18 08:51	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/06/18 08:51	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/06/18 08:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/06/18 08:51	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		11/06/18 08:51	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/06/18 08:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

QC Batch: 305994 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40178922002, 40178922004, 40178922005, 40178922006, 40178922007

METHOD BLANK: 1788798 Matrix: Water
Associated Lab Samples: 40178922002, 40178922004, 40178922005, 40178922006, 40178922007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	11/09/18 06:52	
Ethene	ug/L	<0.52	5.0	11/09/18 06:52	
Methane	ug/L	<1.4	2.8	11/09/18 06:52	

LABORATORY CONTROL SAMPLE & LCSD: 1788799

Parameter	Units	1788800		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
Ethane	ug/L	53.6	58.9	110	107	80-120	2	20	
Ethene	ug/L	50	54.8	110	107	81-120	3	20	
Methane	ug/L	28.6	31.0	108	106	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1789120

Parameter	Units	40178916007		1789121		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Ethane	ug/L	<0.58	53.6	53.6	54.6	102	103	80-120	1	20	
Ethene	ug/L	<0.52	50	50	50.7	101	102	81-122	0	20	
Methane	ug/L	8.1	28.6	28.6	37.8	104	105	44-167	1	20	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

QC Batch: 306302 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40178922008, 40178922009, 40178922010, 40178922011, 40178922012, 40178922013

METHOD BLANK: 1791461 Matrix: Water
Associated Lab Samples: 40178922008, 40178922009, 40178922010, 40178922011, 40178922012, 40178922013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	11/13/18 08:33	
Ethene	ug/L	<0.52	5.0	11/13/18 08:33	
Methane	ug/L	<1.4	2.8	11/13/18 08:33	

LABORATORY CONTROL SAMPLE & LCSD: 1791462 1791463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	61.4	59.6	115	111	80-120	3	20	
Ethene	ug/L	50	56.9	55.5	114	111	81-120	3	20	
Methane	ug/L	28.6	32.4	31.7	113	111	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1791464 1791465

Parameter	Units	40178922008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.58	53.6	53.6	60.5	58.6	113	109	80-120	3	20	
Ethene	ug/L	<0.52	50	50	56.9	54.9	114	110	81-122	4	20	
Methane	ug/L	81.1	28.6	28.6	173	164	321	290	44-167	5	20	M1

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

QC Batch: 305449 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178922001, 40178922008, 40178922014

METHOD BLANK: 1785027 Matrix: Water
Associated Lab Samples: 40178922001, 40178922008, 40178922014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/06/18 06:57	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/06/18 06:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/06/18 06:57	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/06/18 06:57	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/06/18 06:57	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/06/18 06:57	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/06/18 06:57	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/06/18 06:57	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/06/18 06:57	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/06/18 06:57	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/06/18 06:57	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/06/18 06:57	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/06/18 06:57	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/06/18 06:57	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/06/18 06:57	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/06/18 06:57	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/06/18 06:57	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/06/18 06:57	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/06/18 06:57	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/06/18 06:57	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/06/18 06:57	
2-Chlorotoluene	ug/L	<0.93	5.0	11/06/18 06:57	
4-Chlorotoluene	ug/L	<0.76	2.5	11/06/18 06:57	
Benzene	ug/L	<0.25	1.0	11/06/18 06:57	
Bromobenzene	ug/L	<0.24	1.0	11/06/18 06:57	
Bromochloromethane	ug/L	<0.36	5.0	11/06/18 06:57	
Bromodichloromethane	ug/L	<0.36	1.2	11/06/18 06:57	
Bromoform	ug/L	<4.0	13.2	11/06/18 06:57	
Bromomethane	ug/L	<0.97	5.0	11/06/18 06:57	
Carbon tetrachloride	ug/L	<0.17	1.0	11/06/18 06:57	
Chlorobenzene	ug/L	<0.71	2.4	11/06/18 06:57	
Chloroethane	ug/L	<1.3	5.0	11/06/18 06:57	
Chloroform	ug/L	<1.3	5.0	11/06/18 06:57	
Chloromethane	ug/L	<2.2	7.3	11/06/18 06:57	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/06/18 06:57	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/06/18 06:57	
Dibromochloromethane	ug/L	<2.6	8.7	11/06/18 06:57	
Dibromomethane	ug/L	<0.94	3.1	11/06/18 06:57	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/06/18 06:57	
Diisopropyl ether	ug/L	<1.9	6.3	11/06/18 06:57	
Ethylbenzene	ug/L	<0.22	1.0	11/06/18 06:57	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

METHOD BLANK: 1785027 Matrix: Water
Associated Lab Samples: 40178922001, 40178922008, 40178922014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/06/18 06:57	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/06/18 06:57	
m&p-Xylene	ug/L	<0.47	2.0	11/06/18 06:57	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/06/18 06:57	
Methylene Chloride	ug/L	<0.58	5.0	11/06/18 06:57	
n-Butylbenzene	ug/L	<0.71	2.4	11/06/18 06:57	
n-Propylbenzene	ug/L	<0.81	5.0	11/06/18 06:57	
Naphthalene	ug/L	<1.2	5.0	11/06/18 06:57	
o-Xylene	ug/L	<0.26	1.0	11/06/18 06:57	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/06/18 06:57	
sec-Butylbenzene	ug/L	<0.85	5.0	11/06/18 06:57	
Styrene	ug/L	<0.47	1.6	11/06/18 06:57	
tert-Butylbenzene	ug/L	<0.30	1.0	11/06/18 06:57	
Tetrachloroethene	ug/L	<0.33	1.1	11/06/18 06:57	
Toluene	ug/L	<0.17	5.0	11/06/18 06:57	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/06/18 06:57	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/06/18 06:57	
Trichloroethene	ug/L	<0.26	1.0	11/06/18 06:57	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/06/18 06:57	
Vinyl chloride	ug/L	<0.17	1.0	11/06/18 06:57	
4-Bromofluorobenzene (S)	%	86	70-130	11/06/18 06:57	
Dibromofluoromethane (S)	%	107	70-130	11/06/18 06:57	
Toluene-d8 (S)	%	92	70-130	11/06/18 06:57	

LABORATORY CONTROL SAMPLE: 1785028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.2	98	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	67-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	54.3	109	70-134	
1,1-Dichloroethene	ug/L	50	55.6	111	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.8	84	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	70-130	
1,2-Dichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dichloroethane	ug/L	50	52.7	105	73-134	
1,2-Dichloropropane	ug/L	50	57.3	115	79-128	
1,3-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
Benzene	ug/L	50	54.0	108	69-137	
Bromodichloromethane	ug/L	50	53.6	107	70-130	
Bromoform	ug/L	50	47.9	96	64-133	
Bromomethane	ug/L	50	40.1	80	29-123	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

LABORATORY CONTROL SAMPLE: 1785028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	54.6	109	73-142	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	50.6	101	59-133	
Chloroform	ug/L	50	54.1	108	80-129	
Chloromethane	ug/L	50	37.5	75	27-125	
cis-1,2-Dichloroethene	ug/L	50	52.2	104	70-134	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	25.0	50	12-127	
Ethylbenzene	ug/L	50	53.3	107	86-127	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	70-130	
m&p-Xylene	ug/L	100	107	107	70-131	
Methyl-tert-butyl ether	ug/L	50	36.3	73	65-136	
Methylene Chloride	ug/L	50	54.9	110	72-133	
o-Xylene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	53.5	107	70-130	
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Toluene	ug/L	50	51.6	103	84-124	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	70-133	
trans-1,3-Dichloropropene	ug/L	50	43.8	88	67-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	59.0	118	69-147	
Vinyl chloride	ug/L	50	44.2	88	48-134	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785029 1785030

Parameter	Units	40178922008		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.2	49.3	102	99	70-136	4	20			
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.4	49.4	99	99	67-133	0	20			
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.7	50.7	97	101	70-130	4	20			
1,1-Dichloroethane	ug/L	<0.27	50	50	54.4	54.3	109	109	70-139	0	20			
1,1-Dichloroethene	ug/L	<0.24	50	50	55.3	55.7	111	111	72-137	1	20			
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.3	48.7	101	97	68-130	3	20			
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.6	42.0	81	84	60-130	3	21			
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.6	48.7	95	97	70-130	2	20			
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.1	50.7	106	101	70-130	5	20			
1,2-Dichloroethane	ug/L	<0.28	50	50	50.8	53.4	102	107	71-137	5	20			
1,2-Dichloropropane	ug/L	<0.28	50	50	57.8	57.2	116	114	78-130	1	20			
1,3-Dichlorobenzene	ug/L	<0.63	50	50	51.8	50.0	104	100	70-130	4	20			
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.9	51.4	108	103	70-130	5	20			

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

Parameter	Units	1785029		1785030		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40178922008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Benzene	ug/L	<0.25	50	50	51.7	54.0	103	108	66-143	4	20	
Bromodichloromethane	ug/L	<0.36	50	50	54.1	53.6	108	107	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	46.9	46.4	94	93	64-134	1	20	
Bromomethane	ug/L	<0.97	50	50	44.8	43.3	90	87	29-136	3	25	
Carbon tetrachloride	ug/L	<0.17	50	50	55.6	55.3	111	111	73-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	53.4	53.2	107	106	70-130	0	20	
Chloroethane	ug/L	<1.3	50	50	49.5	52.2	99	104	58-138	5	20	
Chloroform	ug/L	<1.3	50	50	53.7	55.0	107	110	80-131	2	20	
Chloromethane	ug/L	<2.2	50	50	37.5	35.7	75	71	24-125	5	20	
cis-1,2-Dichloroethene	ug/L	4.8	50	50	54.6	57.1	100	105	68-137	4	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.7	48.7	99	97	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.6	49.1	97	98	70-131	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	25.2	24.2	50	48	10-127	4	20	
Ethylbenzene	ug/L	<0.22	50	50	54.7	54.2	109	108	81-136	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	55.7	55.3	111	111	70-132	1	20	
m&p-Xylene	ug/L	<0.47	100	100	109	108	109	108	70-135	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	36.2	37.1	72	74	58-142	2	23	
Methylene Chloride	ug/L	<0.58	50	50	55.4	55.2	111	110	69-137	0	20	
o-Xylene	ug/L	<0.26	50	50	52.5	52.9	105	106	70-132	1	20	
Styrene	ug/L	<0.47	50	50	54.6	53.9	109	108	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	52.9	50.2	106	100	70-132	5	20	
Toluene	ug/L	<0.17	50	50	51.2	50.5	102	101	81-130	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	51.7	52.1	103	104	70-136	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.1	43.6	86	87	67-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	57.1	53.6	114	107	70-131	6	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	58.5	59.5	117	119	66-150	2	20	
Vinyl chloride	ug/L	2.6	50	50	46.6	47.2	88	89	46-134	1	20	
4-Bromofluorobenzene (S)	%						95	97	70-130			
Dibromofluoromethane (S)	%						100	109	70-130			
Toluene-d8 (S)	%						93	95	70-130			

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

QC Batch: 305676

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 40178922002, 40178922003, 40178922004, 40178922005, 40178922006, 40178922007, 40178922009, 40178922010, 40178922011, 40178922012, 40178922013

METHOD BLANK: 1786500

Matrix: Water

Associated Lab Samples: 40178922002, 40178922003, 40178922004, 40178922005, 40178922006, 40178922007, 40178922009, 40178922010, 40178922011, 40178922012, 40178922013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/07/18 07:34	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/07/18 07:34	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/07/18 07:34	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/07/18 07:34	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/07/18 07:34	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/07/18 07:34	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/07/18 07:34	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/07/18 07:34	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/07/18 07:34	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/07/18 07:34	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/07/18 07:34	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/07/18 07:34	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/07/18 07:34	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/07/18 07:34	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/07/18 07:34	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/07/18 07:34	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/07/18 07:34	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/07/18 07:34	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/07/18 07:34	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/07/18 07:34	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/07/18 07:34	
2-Chlorotoluene	ug/L	<0.93	5.0	11/07/18 07:34	
4-Chlorotoluene	ug/L	<0.76	2.5	11/07/18 07:34	
Benzene	ug/L	<0.25	1.0	11/07/18 07:34	
Bromobenzene	ug/L	<0.24	1.0	11/07/18 07:34	
Bromochloromethane	ug/L	<0.36	5.0	11/07/18 07:34	
Bromodichloromethane	ug/L	<0.36	1.2	11/07/18 07:34	
Bromoform	ug/L	<4.0	13.2	11/07/18 07:34	
Bromomethane	ug/L	<0.97	5.0	11/07/18 07:34	
Carbon tetrachloride	ug/L	<0.17	1.0	11/07/18 07:34	
Chlorobenzene	ug/L	<0.71	2.4	11/07/18 07:34	
Chloroethane	ug/L	<1.3	5.0	11/07/18 07:34	
Chloroform	ug/L	<1.3	5.0	11/07/18 07:34	
Chloromethane	ug/L	<2.2	7.3	11/07/18 07:34	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/07/18 07:34	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/07/18 07:34	
Dibromochloromethane	ug/L	<2.6	8.7	11/07/18 07:34	
Dibromomethane	ug/L	<0.94	3.1	11/07/18 07:34	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/07/18 07:34	
Diisopropyl ether	ug/L	<1.9	6.3	11/07/18 07:34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

METHOD BLANK: 1786500

Matrix: Water

Associated Lab Samples: 40178922002, 40178922003, 40178922004, 40178922005, 40178922006, 40178922007, 40178922009, 40178922010, 40178922011, 40178922012, 40178922013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	11/07/18 07:34	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/07/18 07:34	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/07/18 07:34	
m&p-Xylene	ug/L	<0.47	2.0	11/07/18 07:34	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/07/18 07:34	
Methylene Chloride	ug/L	<0.58	5.0	11/07/18 07:34	
n-Butylbenzene	ug/L	<0.71	2.4	11/07/18 07:34	
n-Propylbenzene	ug/L	<0.81	5.0	11/07/18 07:34	
Naphthalene	ug/L	<1.2	5.0	11/07/18 07:34	
o-Xylene	ug/L	<0.26	1.0	11/07/18 07:34	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/07/18 07:34	
sec-Butylbenzene	ug/L	<0.85	5.0	11/07/18 07:34	
Styrene	ug/L	<0.47	1.6	11/07/18 07:34	
tert-Butylbenzene	ug/L	<0.30	1.0	11/07/18 07:34	
Tetrachloroethene	ug/L	<0.33	1.1	11/07/18 07:34	
Toluene	ug/L	<0.17	5.0	11/07/18 07:34	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/07/18 07:34	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/07/18 07:34	
Trichloroethene	ug/L	<0.26	1.0	11/07/18 07:34	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/07/18 07:34	
Vinyl chloride	ug/L	<0.17	1.0	11/07/18 07:34	
4-Bromofluorobenzene (S)	%	94	70-130	11/07/18 07:34	
Dibromofluoromethane (S)	%	95	70-130	11/07/18 07:34	
Toluene-d8 (S)	%	98	70-130	11/07/18 07:34	

LABORATORY CONTROL SAMPLE: 1786501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.7	97	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	45.3	91	67-130	
1,1,2-Trichloroethane	ug/L	50	46.5	93	70-130	
1,1-Dichloroethane	ug/L	50	40.9	82	70-134	
1,1-Dichloroethene	ug/L	50	41.1	82	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.8	90	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	48.7	97	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	41.6	83	73-134	
1,2-Dichloropropane	ug/L	50	40.9	82	79-128	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	46.0	92	69-137	
Bromodichloromethane	ug/L	50	47.2	94	70-130	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

LABORATORY CONTROL SAMPLE: 1786501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	50.5	101	64-133	
Bromomethane	ug/L	50	22.8	46	29-123	
Carbon tetrachloride	ug/L	50	49.6	99	73-142	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	37.5	75	59-133	
Chloroform	ug/L	50	45.5	91	80-129	
Chloromethane	ug/L	50	21.2	42	27-125	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-134	
cis-1,3-Dichloropropene	ug/L	50	42.5	85	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dichlorodifluoromethane	ug/L	50	18.6	37	12-127	
Ethylbenzene	ug/L	50	50.1	100	86-127	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	70-130	
m&p-Xylene	ug/L	100	101	101	70-131	
Methyl-tert-butyl ether	ug/L	50	36.5	73	65-136	
Methylene Chloride	ug/L	50	44.0	88	72-133	
o-Xylene	ug/L	50	48.7	97	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Toluene	ug/L	50	48.6	97	84-124	
trans-1,2-Dichloroethene	ug/L	50	41.8	84	70-133	
trans-1,3-Dichloropropene	ug/L	50	42.8	86	67-130	
Trichloroethene	ug/L	50	47.4	95	70-130	
Trichlorofluoromethane	ug/L	50	46.2	92	69-147	
Vinyl chloride	ug/L	50	29.6	59	48-134	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786520 1786521

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40178969002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.8	50.3	100	101	70-136	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	45.2	46.6	90	93	67-133	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	45.8	47.9	92	96	70-130	4	20	
1,1-Dichloroethane	ug/L	0.44J	50	50	41.1	41.4	81	82	70-139	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	41.6	43.1	83	86	72-137	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.1	52.1	100	104	68-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	43.5	46.8	87	94	60-130	7	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.3	47.9	97	96	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.3	52.2	101	104	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	41.6	42.4	83	85	71-137	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	41.4	42.3	83	85	78-130	2	20	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

Parameter	Units	1786520		1786521		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40178969002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.5	51.7	101	103	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.4	50.6	99	101	70-130	2	20	
Benzene	ug/L	<0.25	50	50	47.1	47.5	94	95	66-143	1	20	
Bromodichloromethane	ug/L	<0.36	50	50	47.8	49.4	96	99	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	49.8	50.4	100	101	64-134	1	20	
Bromomethane	ug/L	<0.97	50	50	24.0	24.7	48	49	29-136	3	25	
Carbon tetrachloride	ug/L	<0.17	50	50	49.4	50.2	99	100	73-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	50.5	51.4	101	103	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	37.2	37.6	74	75	58-138	1	20	
Chloroform	ug/L	<1.3	50	50	46.8	46.6	94	93	80-131	0	20	
Chloromethane	ug/L	<2.2	50	50	21.3	21.7	43	43	24-125	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.3	46.5	91	93	68-137	3	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	43.1	43.9	86	88	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	55.0	55.7	110	111	70-131	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	17.9	17.6	36	35	10-127	2	20	
Ethylbenzene	ug/L	<0.22	50	50	50.3	51.5	101	103	81-136	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.6	51.7	101	103	70-132	2	20	
m&p-Xylene	ug/L	<0.47	100	100	102	103	102	103	70-135	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	37.0	37.2	74	74	58-142	1	23	
Methylene Chloride	ug/L	<0.58	50	50	44.4	45.4	89	91	69-137	2	20	
o-Xylene	ug/L	<0.26	50	50	48.6	51.0	97	102	70-132	5	20	
Styrene	ug/L	<0.47	50	50	50.7	51.4	101	103	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	50.2	51.6	100	103	70-132	3	20	
Toluene	ug/L	<0.17	50	50	49.9	50.5	100	101	81-130	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	42.7	42.9	85	86	70-136	0	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.7	44.1	87	88	67-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	49.0	49.2	98	98	70-131	0	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	47.3	47.1	95	94	66-150	0	20	
Vinyl chloride	ug/L	<0.17	50	50	29.5	31.1	59	62	46-134	5	20	
4-Bromofluorobenzene (S)	%						96	97	70-130			
Dibromofluoromethane (S)	%						96	96	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN CO
Pace Project No.: 40178922

QC Batch: 38137 Analysis Method: SM 5310C-11
QC Batch Method: SM 5310C-11 Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40178922002, 40178922004, 40178922005, 40178922006, 40178922007, 40178922008, 40178922009, 40178922010, 40178922011, 40178922012, 40178922013

METHOD BLANK: 154843 Matrix: Water
Associated Lab Samples: 40178922002, 40178922004, 40178922005, 40178922006, 40178922007, 40178922008, 40178922009, 40178922010, 40178922011, 40178922012, 40178922013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.50	1.0	11/13/18 15:22	

LABORATORY CONTROL SAMPLE: 154844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	40	38.9	97	87-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154845 154846

Parameter	Units	40178922008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.9	40	40	41.6	41.7	99	99	75-124	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154847 154848

Parameter	Units	4620090002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	15.6	40	40	52.7	54.0	93	96	75-124	2	20	

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QUALIFIERS

Project: CHW8297 GETZEN CO

Pace Project No.: 40178922

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-GRMI Pace Analytical - Grand Rapids

ANALYTE QUALIFIERS

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: CHW8297 GETZEN CO

Pace Project No.: 40178922

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178922002	MW-2	EPA 8015B Modified	305994		
40178922004	MW-3	EPA 8015B Modified	305994		
40178922005	MW-4	EPA 8015B Modified	305994		
40178922006	MW-5	EPA 8015B Modified	305994		
40178922007	MW-6	EPA 8015B Modified	305994		
40178922008	MW-7	EPA 8015B Modified	306302		
40178922009	MW-8	EPA 8015B Modified	306302		
40178922010	MW-9	EPA 8015B Modified	306302		
40178922011	MW-10	EPA 8015B Modified	306302		
40178922012	P-1	EPA 8015B Modified	306302		
40178922013	P-3	EPA 8015B Modified	306302		
40178922001	MW-1	EPA 8260	305449		
40178922002	MW-2	EPA 8260	305676		
40178922003	MW-2 DUP	EPA 8260	305676		
40178922004	MW-3	EPA 8260	305676		
40178922005	MW-4	EPA 8260	305676		
40178922006	MW-5	EPA 8260	305676		
40178922007	MW-6	EPA 8260	305676		
40178922008	MW-7	EPA 8260	305449		
40178922009	MW-8	EPA 8260	305676		
40178922010	MW-9	EPA 8260	305676		
40178922011	MW-10	EPA 8260	305676		
40178922012	P-1	EPA 8260	305676		
40178922013	P-3	EPA 8260	305676		
40178922014	TRIP BLANK	EPA 8260	305449		
40178922002	MW-2	SM 5310C-11	38137		
40178922004	MW-3	SM 5310C-11	38137		
40178922005	MW-4	SM 5310C-11	38137		
40178922006	MW-5	SM 5310C-11	38137		
40178922007	MW-6	SM 5310C-11	38137		
40178922008	MW-7	SM 5310C-11	38137		
40178922009	MW-8	SM 5310C-11	38137		
40178922010	MW-9	SM 5310C-11	38137		
40178922011	MW-10	SM 5310C-11	38137		
40178922012	P-1	SM 5310C-11	38137		
40178922013	P-3	SM 5310C-11	38137		

REPORT OF LABORATORY ANALYSIS

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Client Name: Geosyntec

Sample Preservation Receipt Form

Project # 1017872

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

Lab Lot# of pH paper:

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

Initial when completed:


Date/Time:

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 109
Green Bay, WI 54302

Pace Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *				Volume (mL)	
						H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2		
001											2.5 / 5 / 10
002											2.5 / 5 / 10
003											2.5 / 5 / 10
004											2.5 / 5 / 10
005											2.5 / 5 / 10
006											2.5 / 5 / 10
007											2.5 / 5 / 10
008											2.5 / 5 / 10
009											2.5 / 5 / 10
010											2.5 / 5 / 10
011											2.5 / 5 / 10
012											2.5 / 5 / 10
013											2.5 / 5 / 10
014											2.5 / 5 / 10
015											2.5 / 5 / 10
016											2.5 / 5 / 10
017											2.5 / 5 / 10
018											2.5 / 5 / 10
019											2.5 / 5 / 10
020											2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN:
1 liter amber glass	1 liter amber glass HCL	125 ml amber glass H2SO4	120 ml amber glass unpres	100 ml amber glass unpres	500 ml amber glass H2SO4	250 ml clear glass unpres	1 liter plastic unpres	500 ml plastic HNO3	500 ml plastic NaOH, Znact	250 ml plastic unpres	250 ml plastic NaOH	250 ml plastic HNO3	250 ml plastic H2SO4	40 ml amber ascorbic	40 ml amber Na Thio	40 ml clear vial unpres	40 ml clear vial HCL	40 ml clear vial MeOH	40 ml clear vial DI	4 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 ml plastic Na Thiosulfate	ziploc bag	GN:

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Geosyntec

Project #: WO# : 40178922

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Race 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 - N/A **Type of Ice:** Wet Blue Dry None
Cooler Temperature: Uncorr: ROT **ICorr:** _____ Samples on ice, cooling process has begun

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.

Person examining contents:
 Date: 11-2-18
 Initials: [Signature]

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>11/2/18</u>
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>410</u>	

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

Project Manager Review: [Signature] **Date:** 11-5-18

November 08, 2018

Jim Bannantine
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHW8297 GETZEN
Pace Project No.: 40178923

Dear Jim Bannantine:

Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: WE Energies Lab Reports, WE Energies
Emma Macalister, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Green Bay Certification IDs

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: CHW8297 GETZEN

Pace Project No.: 40178923

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178923001	MW-11	Water	10/30/18 13:20	11/02/18 14:55
40178923002	MW-12	Water	10/30/18 14:15	11/02/18 14:55
40178923003	MW-13	Water	10/30/18 15:05	11/02/18 14:55

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SAMPLE ANALYTE COUNT

Project: CHW8297 GETZEN
Pace Project No.: 40178923

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178923001	MW-11	EPA 8260	LAP	64
40178923002	MW-12	EPA 8260	HNW	64
40178923003	MW-13	EPA 8260	HNW	64

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-11 **Lab ID: 40178923001** Collected: 10/30/18 13:20 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/06/18 10:24	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/06/18 10:24	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/06/18 10:24	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/06/18 10:24	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/06/18 10:24	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/06/18 10:24	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:24	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/06/18 10:24	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/06/18 10:24	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/06/18 10:24	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:24	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/06/18 10:24	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/06/18 10:24	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/06/18 10:24	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/06/18 10:24	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/06/18 10:24	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/06/18 10:24	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/06/18 10:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/06/18 10:24	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/06/18 10:24	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:24	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/06/18 10:24	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/06/18 10:24	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/06/18 10:24	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 10:24	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:24	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/06/18 10:24	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/06/18 10:24	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/06/18 10:24	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:24	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/06/18 10:24	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/06/18 10:24	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/06/18 10:24	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/06/18 10:24	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/06/18 10:24	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/06/18 10:24	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/06/18 10:24	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/06/18 10:24	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/06/18 10:24	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/06/18 10:24	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/06/18 10:24	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/06/18 10:24	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/06/18 10:24	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/06/18 10:24	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/06/18 10:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 10:24	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-11 **Lab ID: 40178923001** Collected: 10/30/18 13:20 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:24	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/06/18 10:24	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/06/18 10:24	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/06/18 10:24	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/06/18 10:24	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/06/18 10:24	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/06/18 10:24	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/06/18 10:24	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/06/18 10:24	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/06/18 10:24	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/06/18 10:24	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/06/18 10:24	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/06/18 10:24	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/06/18 10:24	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/06/18 10:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/06/18 10:24	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/06/18 10:24	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/06/18 10:24	2037-26-5	

Sample: MW-12 **Lab ID: 40178923002** Collected: 10/30/18 14:15 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 15:05	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:05	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 15:05	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 15:05	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 15:05	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 15:05	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:05	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 15:05	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 15:05	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:05	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:05	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 15:05	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 15:05	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 15:05	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 15:05	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 15:05	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 15:05	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 15:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 15:05	106-93-4	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-12 **Lab ID: 40178923002** Collected: 10/30/18 14:15 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 15:05	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:05	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 15:05	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 15:05	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 15:05	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:05	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:05	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:05	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/07/18 15:05	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 15:05	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:05	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 15:05	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 15:05	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 15:05	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 15:05	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 15:05	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 15:05	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 15:05	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:05	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 15:05	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 15:05	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 15:05	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 15:05	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:05	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 15:05	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:05	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:05	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/07/18 15:05	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 15:05	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 15:05	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 15:05	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 15:05	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 15:05	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:05	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 15:05	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 15:05	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 15:05	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 15:05	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:05	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 15:05	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/07/18 15:05	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		11/07/18 15:05	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/07/18 15:05	2037-26-5	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-13 **Lab ID: 40178923003** Collected: 10/30/18 15:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 15:27	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:27	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 15:27	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 15:27	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 15:27	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 15:27	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:27	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 15:27	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 15:27	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:27	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:27	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 15:27	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 15:27	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 15:27	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 15:27	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 15:27	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 15:27	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 15:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 15:27	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 15:27	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:27	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 15:27	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 15:27	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 15:27	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:27	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:27	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:27	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/07/18 15:27	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 15:27	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:27	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 15:27	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 15:27	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 15:27	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 15:27	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 15:27	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 15:27	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 15:27	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:27	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 15:27	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 15:27	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 15:27	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 15:27	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:27	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 15:27	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:27	630-20-6	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-13 **Lab ID: 40178923003** Collected: 10/30/18 15:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:27	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/07/18 15:27	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 15:27	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 15:27	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 15:27	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 15:27	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 15:27	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:27	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 15:27	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 15:27	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 15:27	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 15:27	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:27	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 15:27	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/07/18 15:27	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		11/07/18 15:27	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/07/18 15:27	2037-26-5	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN
Pace Project No.: 40178923

QC Batch: 305449 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178923001

METHOD BLANK: 1785027 Matrix: Water
Associated Lab Samples: 40178923001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/06/18 06:57	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/06/18 06:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/06/18 06:57	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/06/18 06:57	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/06/18 06:57	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/06/18 06:57	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/06/18 06:57	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/06/18 06:57	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/06/18 06:57	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/06/18 06:57	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/06/18 06:57	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/06/18 06:57	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/06/18 06:57	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/06/18 06:57	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/06/18 06:57	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/06/18 06:57	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/06/18 06:57	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/06/18 06:57	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/06/18 06:57	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/06/18 06:57	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/06/18 06:57	
2-Chlorotoluene	ug/L	<0.93	5.0	11/06/18 06:57	
4-Chlorotoluene	ug/L	<0.76	2.5	11/06/18 06:57	
Benzene	ug/L	<0.25	1.0	11/06/18 06:57	
Bromobenzene	ug/L	<0.24	1.0	11/06/18 06:57	
Bromochloromethane	ug/L	<0.36	5.0	11/06/18 06:57	
Bromodichloromethane	ug/L	<0.36	1.2	11/06/18 06:57	
Bromoform	ug/L	<4.0	13.2	11/06/18 06:57	
Bromomethane	ug/L	<0.97	5.0	11/06/18 06:57	
Carbon tetrachloride	ug/L	<0.17	1.0	11/06/18 06:57	
Chlorobenzene	ug/L	<0.71	2.4	11/06/18 06:57	
Chloroethane	ug/L	<1.3	5.0	11/06/18 06:57	
Chloroform	ug/L	<1.3	5.0	11/06/18 06:57	
Chloromethane	ug/L	<2.2	7.3	11/06/18 06:57	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/06/18 06:57	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/06/18 06:57	
Dibromochloromethane	ug/L	<2.6	8.7	11/06/18 06:57	
Dibromomethane	ug/L	<0.94	3.1	11/06/18 06:57	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/06/18 06:57	
Diisopropyl ether	ug/L	<1.9	6.3	11/06/18 06:57	
Ethylbenzene	ug/L	<0.22	1.0	11/06/18 06:57	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

METHOD BLANK: 1785027

Matrix: Water

Associated Lab Samples: 40178923001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/06/18 06:57	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/06/18 06:57	
m&p-Xylene	ug/L	<0.47	2.0	11/06/18 06:57	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/06/18 06:57	
Methylene Chloride	ug/L	<0.58	5.0	11/06/18 06:57	
n-Butylbenzene	ug/L	<0.71	2.4	11/06/18 06:57	
n-Propylbenzene	ug/L	<0.81	5.0	11/06/18 06:57	
Naphthalene	ug/L	<1.2	5.0	11/06/18 06:57	
o-Xylene	ug/L	<0.26	1.0	11/06/18 06:57	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/06/18 06:57	
sec-Butylbenzene	ug/L	<0.85	5.0	11/06/18 06:57	
Styrene	ug/L	<0.47	1.6	11/06/18 06:57	
tert-Butylbenzene	ug/L	<0.30	1.0	11/06/18 06:57	
Tetrachloroethene	ug/L	<0.33	1.1	11/06/18 06:57	
Toluene	ug/L	<0.17	5.0	11/06/18 06:57	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/06/18 06:57	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/06/18 06:57	
Trichloroethene	ug/L	<0.26	1.0	11/06/18 06:57	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/06/18 06:57	
Vinyl chloride	ug/L	<0.17	1.0	11/06/18 06:57	
4-Bromofluorobenzene (S)	%	86	70-130	11/06/18 06:57	
Dibromofluoromethane (S)	%	107	70-130	11/06/18 06:57	
Toluene-d8 (S)	%	92	70-130	11/06/18 06:57	

LABORATORY CONTROL SAMPLE: 1785028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.2	98	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	67-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	54.3	109	70-134	
1,1-Dichloroethene	ug/L	50	55.6	111	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.8	84	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	70-130	
1,2-Dichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dichloroethane	ug/L	50	52.7	105	73-134	
1,2-Dichloropropane	ug/L	50	57.3	115	79-128	
1,3-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
Benzene	ug/L	50	54.0	108	69-137	
Bromodichloromethane	ug/L	50	53.6	107	70-130	
Bromoform	ug/L	50	47.9	96	64-133	
Bromomethane	ug/L	50	40.1	80	29-123	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

LABORATORY CONTROL SAMPLE: 1785028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	54.6	109	73-142	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	50.6	101	59-133	
Chloroform	ug/L	50	54.1	108	80-129	
Chloromethane	ug/L	50	37.5	75	27-125	
cis-1,2-Dichloroethene	ug/L	50	52.2	104	70-134	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	25.0	50	12-127	
Ethylbenzene	ug/L	50	53.3	107	86-127	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	70-130	
m&p-Xylene	ug/L	100	107	107	70-131	
Methyl-tert-butyl ether	ug/L	50	36.3	73	65-136	
Methylene Chloride	ug/L	50	54.9	110	72-133	
o-Xylene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	53.5	107	70-130	
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Toluene	ug/L	50	51.6	103	84-124	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	70-133	
trans-1,3-Dichloropropene	ug/L	50	43.8	88	67-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	59.0	118	69-147	
Vinyl chloride	ug/L	50	44.2	88	48-134	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785029 1785030

Parameter	Units	40178922008		MSD		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.2	49.3	102	99	70-136	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.4	49.4	99	99	67-133	0	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.7	50.7	97	101	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	54.4	54.3	109	109	70-139	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	55.3	55.7	111	111	72-137	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.3	48.7	101	97	68-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.6	42.0	81	84	60-130	3	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.6	48.7	95	97	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.1	50.7	106	101	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	50.8	53.4	102	107	71-137	5	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	57.8	57.2	116	114	78-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	51.8	50.0	104	100	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.9	51.4	108	103	70-130	5	20	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Parameter	Units	1785029		1785030		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40178922008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Benzene	ug/L	<0.25	50	50	51.7	54.0	103	108	66-143	4	20	
Bromodichloromethane	ug/L	<0.36	50	50	54.1	53.6	108	107	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	46.9	46.4	94	93	64-134	1	20	
Bromomethane	ug/L	<0.97	50	50	44.8	43.3	90	87	29-136	3	25	
Carbon tetrachloride	ug/L	<0.17	50	50	55.6	55.3	111	111	73-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	53.4	53.2	107	106	70-130	0	20	
Chloroethane	ug/L	<1.3	50	50	49.5	52.2	99	104	58-138	5	20	
Chloroform	ug/L	<1.3	50	50	53.7	55.0	107	110	80-131	2	20	
Chloromethane	ug/L	<2.2	50	50	37.5	35.7	75	71	24-125	5	20	
cis-1,2-Dichloroethene	ug/L	4.8	50	50	54.6	57.1	100	105	68-137	4	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.7	48.7	99	97	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.6	49.1	97	98	70-131	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	25.2	24.2	50	48	10-127	4	20	
Ethylbenzene	ug/L	<0.22	50	50	54.7	54.2	109	108	81-136	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	55.7	55.3	111	111	70-132	1	20	
m&p-Xylene	ug/L	<0.47	100	100	109	108	109	108	70-135	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	36.2	37.1	72	74	58-142	2	23	
Methylene Chloride	ug/L	<0.58	50	50	55.4	55.2	111	110	69-137	0	20	
o-Xylene	ug/L	<0.26	50	50	52.5	52.9	105	106	70-132	1	20	
Styrene	ug/L	<0.47	50	50	54.6	53.9	109	108	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	52.9	50.2	106	100	70-132	5	20	
Toluene	ug/L	<0.17	50	50	51.2	50.5	102	101	81-130	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	51.7	52.1	103	104	70-136	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.1	43.6	86	87	67-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	57.1	53.6	114	107	70-131	6	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	58.5	59.5	117	119	66-150	2	20	
Vinyl chloride	ug/L	2.6	50	50	46.6	47.2	88	89	46-134	1	20	
4-Bromofluorobenzene (S)	%						95	97	70-130			
Dibromofluoromethane (S)	%						100	109	70-130			
Toluene-d8 (S)	%						93	95	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN
Pace Project No.: 40178923

QC Batch: 305676 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178923002, 40178923003

METHOD BLANK: 1786500 Matrix: Water
Associated Lab Samples: 40178923002, 40178923003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/07/18 07:34	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/07/18 07:34	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/07/18 07:34	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/07/18 07:34	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/07/18 07:34	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/07/18 07:34	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/07/18 07:34	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/07/18 07:34	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/07/18 07:34	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/07/18 07:34	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/07/18 07:34	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/07/18 07:34	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/07/18 07:34	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/07/18 07:34	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/07/18 07:34	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/07/18 07:34	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/07/18 07:34	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/07/18 07:34	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/07/18 07:34	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/07/18 07:34	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/07/18 07:34	
2-Chlorotoluene	ug/L	<0.93	5.0	11/07/18 07:34	
4-Chlorotoluene	ug/L	<0.76	2.5	11/07/18 07:34	
Benzene	ug/L	<0.25	1.0	11/07/18 07:34	
Bromobenzene	ug/L	<0.24	1.0	11/07/18 07:34	
Bromochloromethane	ug/L	<0.36	5.0	11/07/18 07:34	
Bromodichloromethane	ug/L	<0.36	1.2	11/07/18 07:34	
Bromoform	ug/L	<4.0	13.2	11/07/18 07:34	
Bromomethane	ug/L	<0.97	5.0	11/07/18 07:34	
Carbon tetrachloride	ug/L	<0.17	1.0	11/07/18 07:34	
Chlorobenzene	ug/L	<0.71	2.4	11/07/18 07:34	
Chloroethane	ug/L	<1.3	5.0	11/07/18 07:34	
Chloroform	ug/L	<1.3	5.0	11/07/18 07:34	
Chloromethane	ug/L	<2.2	7.3	11/07/18 07:34	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/07/18 07:34	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/07/18 07:34	
Dibromochloromethane	ug/L	<2.6	8.7	11/07/18 07:34	
Dibromomethane	ug/L	<0.94	3.1	11/07/18 07:34	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/07/18 07:34	
Diisopropyl ether	ug/L	<1.9	6.3	11/07/18 07:34	
Ethylbenzene	ug/L	<0.22	1.0	11/07/18 07:34	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

METHOD BLANK: 1786500

Matrix: Water

Associated Lab Samples: 40178923002, 40178923003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/07/18 07:34	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/07/18 07:34	
m&p-Xylene	ug/L	<0.47	2.0	11/07/18 07:34	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/07/18 07:34	
Methylene Chloride	ug/L	<0.58	5.0	11/07/18 07:34	
n-Butylbenzene	ug/L	<0.71	2.4	11/07/18 07:34	
n-Propylbenzene	ug/L	<0.81	5.0	11/07/18 07:34	
Naphthalene	ug/L	<1.2	5.0	11/07/18 07:34	
o-Xylene	ug/L	<0.26	1.0	11/07/18 07:34	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/07/18 07:34	
sec-Butylbenzene	ug/L	<0.85	5.0	11/07/18 07:34	
Styrene	ug/L	<0.47	1.6	11/07/18 07:34	
tert-Butylbenzene	ug/L	<0.30	1.0	11/07/18 07:34	
Tetrachloroethene	ug/L	<0.33	1.1	11/07/18 07:34	
Toluene	ug/L	<0.17	5.0	11/07/18 07:34	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/07/18 07:34	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/07/18 07:34	
Trichloroethene	ug/L	<0.26	1.0	11/07/18 07:34	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/07/18 07:34	
Vinyl chloride	ug/L	<0.17	1.0	11/07/18 07:34	
4-Bromofluorobenzene (S)	%	94	70-130	11/07/18 07:34	
Dibromofluoromethane (S)	%	95	70-130	11/07/18 07:34	
Toluene-d8 (S)	%	98	70-130	11/07/18 07:34	

LABORATORY CONTROL SAMPLE: 1786501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.7	97	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	45.3	91	67-130	
1,1,2-Trichloroethane	ug/L	50	46.5	93	70-130	
1,1-Dichloroethane	ug/L	50	40.9	82	70-134	
1,1-Dichloroethene	ug/L	50	41.1	82	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.8	90	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	48.7	97	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	41.6	83	73-134	
1,2-Dichloropropane	ug/L	50	40.9	82	79-128	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	46.0	92	69-137	
Bromodichloromethane	ug/L	50	47.2	94	70-130	
Bromoform	ug/L	50	50.5	101	64-133	
Bromomethane	ug/L	50	22.8	46	29-123	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

LABORATORY CONTROL SAMPLE: 1786501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	49.6	99	73-142	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	37.5	75	59-133	
Chloroform	ug/L	50	45.5	91	80-129	
Chloromethane	ug/L	50	21.2	42	27-125	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-134	
cis-1,3-Dichloropropene	ug/L	50	42.5	85	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dichlorodifluoromethane	ug/L	50	18.6	37	12-127	
Ethylbenzene	ug/L	50	50.1	100	86-127	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	70-130	
m&p-Xylene	ug/L	100	101	101	70-131	
Methyl-tert-butyl ether	ug/L	50	36.5	73	65-136	
Methylene Chloride	ug/L	50	44.0	88	72-133	
o-Xylene	ug/L	50	48.7	97	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Toluene	ug/L	50	48.6	97	84-124	
trans-1,2-Dichloroethene	ug/L	50	41.8	84	70-133	
trans-1,3-Dichloropropene	ug/L	50	42.8	86	67-130	
Trichloroethene	ug/L	50	47.4	95	70-130	
Trichlorofluoromethane	ug/L	50	46.2	92	69-147	
Vinyl chloride	ug/L	50	29.6	59	48-134	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786520 1786521

Parameter	Units	40178969002		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.8	50.3	100	101	70-136	1	20			
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	45.2	46.6	90	93	67-133	3	20			
1,1,2-Trichloroethane	ug/L	<0.55	50	50	45.8	47.9	92	96	70-130	4	20			
1,1-Dichloroethane	ug/L	0.44J	50	50	41.1	41.4	81	82	70-139	1	20			
1,1-Dichloroethene	ug/L	<0.24	50	50	41.6	43.1	83	86	72-137	3	20			
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.1	52.1	100	104	68-130	4	20			
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	43.5	46.8	87	94	60-130	7	21			
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.3	47.9	97	96	70-130	1	20			
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.3	52.2	101	104	70-130	4	20			
1,2-Dichloroethane	ug/L	<0.28	50	50	41.6	42.4	83	85	71-137	2	20			
1,2-Dichloropropane	ug/L	<0.28	50	50	41.4	42.3	83	85	78-130	2	20			
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.5	51.7	101	103	70-130	2	20			
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.4	50.6	99	101	70-130	2	20			

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Parameter	Units	1786520		1786521		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40178969002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	ug/L	<0.25	50	50	47.1	47.5	94	95	66-143	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	47.8	49.4	96	99	70-130	3	20		
Bromoform	ug/L	<4.0	50	50	49.8	50.4	100	101	64-134	1	20		
Bromomethane	ug/L	<0.97	50	50	24.0	24.7	48	49	29-136	3	25		
Carbon tetrachloride	ug/L	<0.17	50	50	49.4	50.2	99	100	73-142	1	20		
Chlorobenzene	ug/L	<0.71	50	50	50.5	51.4	101	103	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	37.2	37.6	74	75	58-138	1	20		
Chloroform	ug/L	<1.3	50	50	46.8	46.6	94	93	80-131	0	20		
Chloromethane	ug/L	<2.2	50	50	21.3	21.7	43	43	24-125	2	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.3	46.5	91	93	68-137	3	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	43.1	43.9	86	88	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	55.0	55.7	110	111	70-131	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	17.9	17.6	36	35	10-127	2	20		
Ethylbenzene	ug/L	<0.22	50	50	50.3	51.5	101	103	81-136	2	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.6	51.7	101	103	70-132	2	20		
m&p-Xylene	ug/L	<0.47	100	100	102	103	102	103	70-135	2	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	37.0	37.2	74	74	58-142	1	23		
Methylene Chloride	ug/L	<0.58	50	50	44.4	45.4	89	91	69-137	2	20		
o-Xylene	ug/L	<0.26	50	50	48.6	51.0	97	102	70-132	5	20		
Styrene	ug/L	<0.47	50	50	50.7	51.4	101	103	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	50.2	51.6	100	103	70-132	3	20		
Toluene	ug/L	<0.17	50	50	49.9	50.5	100	101	81-130	1	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	42.7	42.9	85	86	70-136	0	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.7	44.1	87	88	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	49.0	49.2	98	98	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	47.3	47.1	95	94	66-150	0	20		
Vinyl chloride	ug/L	<0.17	50	50	29.5	31.1	59	62	46-134	5	20		
4-Bromofluorobenzene (S)	%						96	97	70-130				
Dibromofluoromethane (S)	%						96	96	70-130				
Toluene-d8 (S)	%						98	98	70-130				

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QUALIFIERS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178923001	MW-11	EPA 8260	305449		
40178923002	MW-12	EPA 8260	305676		
40178923003	MW-13	EPA 8260	305676		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Geosyntec

Project #:

WO#: **40178923**

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



40178923

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 - N/A Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: KOL ICorr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 11-2-18

Initials: SW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

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:	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	8.
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 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 type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

If checked, see attached form for additional comments

Comments/ Resolution: _____

Project Manager Review: _____

Date: 11-5-18

December 14, 2018

Mr. Bryan Arndt
Applied Material Solutions
1001 E. Centralia Street
Elkhorn, Wisconsin 53121

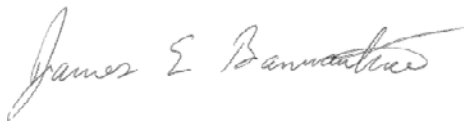
RE: Transmittal of Groundwater Monitoring Results for Applied Material Solutions (AMS) Property, 530 South County Highway H, Elkhorn, Wisconsin BRRTS# 02-65-245978, FID# 265006720

Dear Mr. Arndt:

Attached are the laboratory results for groundwater samples collected from your property in October 2018. Three locations (MW-11, MW-12 and MW-13) were sampled and submitted to Pace Analytical Laboratory (Wisconsin Certification #: 405132750) for analysis of volatile organic compounds (VOCs). Monitoring well locations are depicted in Figure 1. A copy of the laboratory analytical report is attached, and the analytical results are summarized in the attached Table 1. A copy of this letter has been provided to the WDNR for the Getzen Company, Inc. project case file.

Thank you for providing access to the AMS property. Please contact us if you have any questions.

Sincerely,



Jim Bannantine, P.G.
Senior Geologist

Attached: Laboratory Analytical Report (Pace Analytical)
Table 1 Summary of October/November 2018 Groundwater Sample Analytical Results
Figure 1 Monitoring Well Locations for Applied Material Solutions

Copies:

Jeff Ackerman, Project Manager, Wisconsin Department of Natural Resources
Brett Getzen, President, Getzen Musical Instruments, Inc.



APPLIED MATERIAL SOLUTIONS PROPERTY

GETZEN COMPANY PROPERTY

MW-1

MW-12

MW-13

LEGEND

MONITORING WELL LOCATION

SCALE IN FEET



Geosyntec
consultants

CLIENT: GETZEN COMPANY, INC.

PROJECT: GETZEN COMPANY, INC. SITE
530 SOUTH COUNTY HIGHWAY H
ELKHORN, WISCONSIN

TITLE: MONITORING WELL LOCATIONS FOR APPLIED MATERIAL SOLUTIONS

PROJECT: CHW8297
DATE: May 29, 2018

FIGURE NO.: 1
FILE NO.: 2018-05 C 020

DRAWING NO.: 1 of 1

TABLE 1
SUMMARY OF OCTOBER/NOVEMBER 2018 GROUNDWATER SAMPLE ANALYTICAL RESULTS

Applied Material Solutions
 1001 E. Centralia Street
 Elkhorn, Wisconsin
 BRRTS # 02-65-245978

Date	10/30/2018		10/30/2018		10/30/2018		Groundwater Quality Standards	
Well No.	MW-11		MW-12		MW-13		ES ¹	PAL ²
Screen Interval (feet bgs)	8-18		8-18		8-18		(ug/L)	(ug/L)
Detected VOCs (ug/L)								
Benzene	< 0.25	U	< 0.25	U	< 0.25	U	5	0.5
Bromobenzene	< 0.24	U	< 0.24	U	< 0.24	U	NS	NS
Bromochloromethane	< 0.36	U	< 0.36	U	< 0.36	U	NS	NS
Bromodichloromethane	< 0.36	U	< 0.36	U	< 0.36	U	0.6	0.1
Bromoform	< 4.0	U	< 4.0	U	< 4.0	U	4	0.4
Bromomethane	< 0.97	U	< 0.97	U	< 0.97	U	10	1
n-Butylbenzene	< 0.71	U	< 0.71	U	< 0.71	U	NS	NS
sec-Butylbenzene	< 0.85	U	< 0.85	U	< 0.85	U	NS	NS
tert-Butylbenzene	< 0.30	U	< 0.30	U	< 0.30	U	NS	NS
Carbon tetrachloride	< 0.17	U	< 0.17	U	< 0.17	U	5	0.5
Chlorobenzene	< 0.71	U	< 0.71	U	< 0.71	U	NS	NS
Chloroethane	< 1.3	U	< 1.3	U	< 1.3	U	400	80
Chloroform	< 1.3	U	< 1.3	U	< 1.3	U	6	1
Chloromethane	< 2.2	U	< 2.2	U	< 2.2	U	30	3
2-Chlorotoluene	< 0.93	U	< 0.93	U	< 0.93	U	NS	NS
4-Chlorotoluene	< 0.76	U	< 0.76	U	< 0.76	U	NS	NS
1,2-Dibromo-3-chloropropane	< 1.8	U	< 1.8	U	< 1.8	U	0	0
Dibromochloromethane	< 2.6	U	< 2.6	U	< 2.6	U	60	6
1,2-Dibromoethane (EDB)	< 0.83	U	< 0.83	U	< 0.83	U	0	0
Dibromomethane	< 0.94	U	< 0.94	U	< 0.94	U	NS	NS
1,2-Dichlorobenzene	< 0.71	U	< 0.71	U	< 0.71	U	600	60
1,3-Dichlorobenzene	< 0.63	U	< 0.63	U	< 0.63	U	1,250	125
1,4-Dichlorobenzene	< 0.94	U	< 0.94	U	< 0.94	U	75	15
Dichlorodifluoromethane	< 0.50	U	< 0.50	U	< 0.50	U	1,000	200
1,1-Dichloroethane	< 0.27	U	< 0.27	U	< 0.27	U	850	85
1,2-Dichloroethane	< 0.28	U	< 0.28	U	< 0.28	U	5	0.5
1,1-Dichloroethene	< 0.24	U	< 0.24	U	< 0.24	U	7	0.7
cis-1,2-Dichloroethene	< 0.27	U	< 0.27	U	< 0.27	U	70	7
trans-1,2-Dichloroethene	< 1.1	U	< 1.1	U	< 1.1	U	100	20
1,2-Dichloropropane	< 0.28	U	< 0.28	U	< 0.28	U	5	0.5
1,3-Dichloropropane	< 0.83	U	< 0.83	U	< 0.83	U	NS	NS
2,2-Dichloropropane	< 2.3	U	< 2.3	U	< 2.3	U	NS	NS
1,1-Dichloropropene	< 0.54	U	< 0.54	U	< 0.54	U	NS	NS
cis-1,3-Dichloropropene	< 3.6	U	< 3.6	U	< 3.6	U	0.2	0.02
trans-1,3-Dichloropropene	< 4.4	U	< 4.4	U	< 4.4	U	0.2	0.02
Diisopropyl ether	< 1.9	U	< 1.9	U	< 1.9	U	NS	NS
Ethylbenzene	< 0.22	U	< 0.22	U	< 0.22	U	700	140
Hexachloro-1,3-butadiene	< 1.2	U	< 1.2	U	< 1.2	U	NS	NS
Isopropylbenzene (Cumene)	< 0.39	U	< 0.39	U	< 0.39	U	NS	NS
p-Isopropyltoluene	< 0.80	U	< 0.80	U	< 0.80	U	NS	NS
Methylene Chloride	< 0.58	U	< 0.58	U	< 0.58	U	5	1
Methyl-tert-butyl ether	< 1.2	U	< 1.2	U	< 1.2	U	60	12
Naphthalene	< 1.2	U	< 1.2	U	< 1.2	U	100	10
n-Propylbenzene	< 0.81	U	< 0.81	U	< 0.81	U	NS	NS
Styrene	< 0.47	U	< 0.47	U	< 0.47	U	100	10
1,1,1,2-Tetrachloroethane	< 0.27	U	< 0.27	U	< 0.27	U	70	7
1,1,2,2-Tetrachloroethane	< 0.28	U	< 0.28	U	< 0.28	U	0.2	0.02
Tetrachloroethene	< 0.33	U	< 0.33	U	< 0.33	U	5	0.5
Toluene	< 0.17	U	< 0.17	U	< 0.17	U	1,000	200
1,2,3-Trichlorobenzene	< 0.63	U	< 0.63	U	< 0.63	U	NS	NS
1,2,4-Trichlorobenzene	< 0.95	U	< 0.95	U	< 0.95	U	70	14
1,1,1-Trichloroethane	< 0.24	U	< 0.24	U	< 0.24	U	200	40
1,1,2-Trichloroethane	< 0.55	U	< 0.55	U	< 0.55	U	5	0.5
Trichloroethene	< 0.26	U	< 0.26	U	< 0.26	U	5	0.5
Trichlorofluoromethane	< 0.21	U	< 0.21	U	< 0.21	U	3,490	698
1,2,3-Trichloropropane	< 0.59	U	< 0.59	U	< 0.59	U	60	12
1,2,4-Trimethylbenzene	< 0.84	U	< 0.84	U	< 0.84	U	480*	96*
1,3,5-Trimethylbenzene	< 0.87	U	< 0.87	U	< 0.87	U		
Vinyl chloride	< 0.17	U	< 0.17	U	< 0.17	U	0.2	0.02
m&p-Xylene	< 0.47	U	< 0.47	U	< 0.47	U	2,000**	400**
o-Xylene	< 0.26	U	< 0.26	U	< 0.26	U		

Notes:

1. Wisconsin Administrative Code Chapter NR 140 Enforcement Standard. Concentrations that are bold exceed the ES.
2. Wisconsin Administrative Code Chapter NR 140 Preventative Action Limit. Concentrations in italics exceed the PAL.

bgs - below ground surface

NS = no NR 140 standard published.

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD

* The ES and PAL for trimethylbenzenes applies to the sum of the 1,2,4- and 1,3,5- isomers

** The ES and PAL for xylenes applies to the sum of the m-, p- and o-isomers

VOCs - Volatile Organic Compounds

ug/L - micrograms per Liter

November 08, 2018

Jim Bannantine
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHW8297 GETZEN
Pace Project No.: 40178923

Dear Jim Bannantine:

Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: WE Energies Lab Reports, WE Energies
Emma Macalister, Geosyntec Consultants



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Green Bay Certification IDs

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: CHW8297 GETZEN

Pace Project No.: 40178923

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178923001	MW-11	Water	10/30/18 13:20	11/02/18 14:55
40178923002	MW-12	Water	10/30/18 14:15	11/02/18 14:55
40178923003	MW-13	Water	10/30/18 15:05	11/02/18 14:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CHW8297 GETZEN
Pace Project No.: 40178923

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178923001	MW-11	EPA 8260	LAP	64
40178923002	MW-12	EPA 8260	HNW	64
40178923003	MW-13	EPA 8260	HNW	64

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-11 **Lab ID: 40178923001** Collected: 10/30/18 13:20 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/06/18 10:24	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/06/18 10:24	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/06/18 10:24	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/06/18 10:24	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/06/18 10:24	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/06/18 10:24	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:24	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/06/18 10:24	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/06/18 10:24	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/06/18 10:24	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:24	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/06/18 10:24	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/06/18 10:24	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/06/18 10:24	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/06/18 10:24	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/06/18 10:24	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/06/18 10:24	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/06/18 10:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/06/18 10:24	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/06/18 10:24	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/06/18 10:24	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/06/18 10:24	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/06/18 10:24	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/06/18 10:24	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 10:24	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:24	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/06/18 10:24	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/06/18 10:24	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/06/18 10:24	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:24	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/06/18 10:24	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/06/18 10:24	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/06/18 10:24	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/06/18 10:24	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/06/18 10:24	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/06/18 10:24	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/06/18 10:24	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/06/18 10:24	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/06/18 10:24	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/06/18 10:24	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/06/18 10:24	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/06/18 10:24	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/06/18 10:24	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/06/18 10:24	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/06/18 10:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/06/18 10:24	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-11 Lab ID: 40178923001 Collected: 10/30/18 13:20 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/06/18 10:24	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/06/18 10:24	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/06/18 10:24	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/06/18 10:24	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/06/18 10:24	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/06/18 10:24	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/06/18 10:24	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/06/18 10:24	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/06/18 10:24	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/06/18 10:24	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/06/18 10:24	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/06/18 10:24	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/06/18 10:24	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/06/18 10:24	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/06/18 10:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/06/18 10:24	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/06/18 10:24	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/06/18 10:24	2037-26-5	

Sample: MW-12 Lab ID: 40178923002 Collected: 10/30/18 14:15 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 15:05	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:05	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 15:05	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 15:05	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 15:05	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 15:05	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:05	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 15:05	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 15:05	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:05	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:05	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 15:05	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 15:05	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 15:05	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 15:05	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 15:05	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 15:05	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 15:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 15:05	106-93-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-12 **Lab ID: 40178923002** Collected: 10/30/18 14:15 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 15:05	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:05	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 15:05	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 15:05	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 15:05	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:05	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:05	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:05	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/07/18 15:05	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 15:05	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:05	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 15:05	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 15:05	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 15:05	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 15:05	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 15:05	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 15:05	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 15:05	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:05	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 15:05	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 15:05	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 15:05	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 15:05	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:05	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 15:05	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:05	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:05	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/07/18 15:05	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 15:05	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 15:05	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 15:05	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 15:05	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 15:05	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:05	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 15:05	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 15:05	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 15:05	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 15:05	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:05	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 15:05	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/07/18 15:05	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		11/07/18 15:05	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/07/18 15:05	2037-26-5	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-13 **Lab ID: 40178923003** Collected: 10/30/18 15:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/07/18 15:27	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:27	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/07/18 15:27	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/07/18 15:27	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/07/18 15:27	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/07/18 15:27	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:27	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/07/18 15:27	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/07/18 15:27	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:27	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:27	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/07/18 15:27	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/07/18 15:27	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/07/18 15:27	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/07/18 15:27	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/07/18 15:27	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/07/18 15:27	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/07/18 15:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/07/18 15:27	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/07/18 15:27	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/07/18 15:27	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/07/18 15:27	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/07/18 15:27	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/07/18 15:27	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:27	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:27	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/07/18 15:27	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/07/18 15:27	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/07/18 15:27	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:27	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/07/18 15:27	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/07/18 15:27	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/07/18 15:27	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/07/18 15:27	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/07/18 15:27	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/07/18 15:27	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/07/18 15:27	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:27	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/07/18 15:27	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/07/18 15:27	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/07/18 15:27	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/07/18 15:27	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/07/18 15:27	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/07/18 15:27	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/07/18 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/07/18 15:27	630-20-6	

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ANALYTICAL RESULTS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Sample: MW-13 **Lab ID: 40178923003** Collected: 10/30/18 15:05 Received: 11/02/18 14:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/07/18 15:27	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/07/18 15:27	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/07/18 15:27	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/07/18 15:27	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/07/18 15:27	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/07/18 15:27	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/07/18 15:27	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:27	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/07/18 15:27	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/07/18 15:27	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/07/18 15:27	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/07/18 15:27	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/07/18 15:27	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/07/18 15:27	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/07/18 15:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/07/18 15:27	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		11/07/18 15:27	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/07/18 15:27	2037-26-5	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN
Pace Project No.: 40178923

QC Batch: 305449 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178923001

METHOD BLANK: 1785027 Matrix: Water
Associated Lab Samples: 40178923001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/06/18 06:57	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/06/18 06:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/06/18 06:57	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/06/18 06:57	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/06/18 06:57	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/06/18 06:57	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/06/18 06:57	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/06/18 06:57	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/06/18 06:57	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/06/18 06:57	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/06/18 06:57	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/06/18 06:57	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/06/18 06:57	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/06/18 06:57	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/06/18 06:57	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/06/18 06:57	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/06/18 06:57	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/06/18 06:57	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/06/18 06:57	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/06/18 06:57	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/06/18 06:57	
2-Chlorotoluene	ug/L	<0.93	5.0	11/06/18 06:57	
4-Chlorotoluene	ug/L	<0.76	2.5	11/06/18 06:57	
Benzene	ug/L	<0.25	1.0	11/06/18 06:57	
Bromobenzene	ug/L	<0.24	1.0	11/06/18 06:57	
Bromochloromethane	ug/L	<0.36	5.0	11/06/18 06:57	
Bromodichloromethane	ug/L	<0.36	1.2	11/06/18 06:57	
Bromoform	ug/L	<4.0	13.2	11/06/18 06:57	
Bromomethane	ug/L	<0.97	5.0	11/06/18 06:57	
Carbon tetrachloride	ug/L	<0.17	1.0	11/06/18 06:57	
Chlorobenzene	ug/L	<0.71	2.4	11/06/18 06:57	
Chloroethane	ug/L	<1.3	5.0	11/06/18 06:57	
Chloroform	ug/L	<1.3	5.0	11/06/18 06:57	
Chloromethane	ug/L	<2.2	7.3	11/06/18 06:57	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/06/18 06:57	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/06/18 06:57	
Dibromochloromethane	ug/L	<2.6	8.7	11/06/18 06:57	
Dibromomethane	ug/L	<0.94	3.1	11/06/18 06:57	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/06/18 06:57	
Diisopropyl ether	ug/L	<1.9	6.3	11/06/18 06:57	
Ethylbenzene	ug/L	<0.22	1.0	11/06/18 06:57	

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

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

METHOD BLANK: 1785027

Matrix: Water

Associated Lab Samples: 40178923001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/06/18 06:57	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/06/18 06:57	
m&p-Xylene	ug/L	<0.47	2.0	11/06/18 06:57	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/06/18 06:57	
Methylene Chloride	ug/L	<0.58	5.0	11/06/18 06:57	
n-Butylbenzene	ug/L	<0.71	2.4	11/06/18 06:57	
n-Propylbenzene	ug/L	<0.81	5.0	11/06/18 06:57	
Naphthalene	ug/L	<1.2	5.0	11/06/18 06:57	
o-Xylene	ug/L	<0.26	1.0	11/06/18 06:57	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/06/18 06:57	
sec-Butylbenzene	ug/L	<0.85	5.0	11/06/18 06:57	
Styrene	ug/L	<0.47	1.6	11/06/18 06:57	
tert-Butylbenzene	ug/L	<0.30	1.0	11/06/18 06:57	
Tetrachloroethene	ug/L	<0.33	1.1	11/06/18 06:57	
Toluene	ug/L	<0.17	5.0	11/06/18 06:57	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/06/18 06:57	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/06/18 06:57	
Trichloroethene	ug/L	<0.26	1.0	11/06/18 06:57	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/06/18 06:57	
Vinyl chloride	ug/L	<0.17	1.0	11/06/18 06:57	
4-Bromofluorobenzene (S)	%	86	70-130	11/06/18 06:57	
Dibromofluoromethane (S)	%	107	70-130	11/06/18 06:57	
Toluene-d8 (S)	%	92	70-130	11/06/18 06:57	

LABORATORY CONTROL SAMPLE: 1785028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.2	98	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	67-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	54.3	109	70-134	
1,1-Dichloroethene	ug/L	50	55.6	111	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.8	84	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	70-130	
1,2-Dichlorobenzene	ug/L	50	53.2	106	70-130	
1,2-Dichloroethane	ug/L	50	52.7	105	73-134	
1,2-Dichloropropane	ug/L	50	57.3	115	79-128	
1,3-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
Benzene	ug/L	50	54.0	108	69-137	
Bromodichloromethane	ug/L	50	53.6	107	70-130	
Bromoform	ug/L	50	47.9	96	64-133	
Bromomethane	ug/L	50	40.1	80	29-123	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

LABORATORY CONTROL SAMPLE: 1785028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	54.6	109	73-142	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	50.6	101	59-133	
Chloroform	ug/L	50	54.1	108	80-129	
Chloromethane	ug/L	50	37.5	75	27-125	
cis-1,2-Dichloroethene	ug/L	50	52.2	104	70-134	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	
Dibromochloromethane	ug/L	50	48.7	97	70-130	
Dichlorodifluoromethane	ug/L	50	25.0	50	12-127	
Ethylbenzene	ug/L	50	53.3	107	86-127	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	70-130	
m&p-Xylene	ug/L	100	107	107	70-131	
Methyl-tert-butyl ether	ug/L	50	36.3	73	65-136	
Methylene Chloride	ug/L	50	54.9	110	72-133	
o-Xylene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	53.5	107	70-130	
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Toluene	ug/L	50	51.6	103	84-124	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	70-133	
trans-1,3-Dichloropropene	ug/L	50	43.8	88	67-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	59.0	118	69-147	
Vinyl chloride	ug/L	50	44.2	88	48-134	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785029 1785030

Parameter	Units	40178922008		MSD		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.2	49.3	102	99	70-136	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.4	49.4	99	99	67-133	0	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.7	50.7	97	101	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	54.4	54.3	109	109	70-139	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	55.3	55.7	111	111	72-137	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.3	48.7	101	97	68-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.6	42.0	81	84	60-130	3	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.6	48.7	95	97	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.1	50.7	106	101	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	50.8	53.4	102	107	71-137	5	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	57.8	57.2	116	114	78-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	51.8	50.0	104	100	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.9	51.4	108	103	70-130	5	20	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785029		1785030		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40178922008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	ug/L	<0.25	50	50	51.7	54.0	103	108	66-143	4	20		
Bromodichloromethane	ug/L	<0.36	50	50	54.1	53.6	108	107	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	46.9	46.4	94	93	64-134	1	20		
Bromomethane	ug/L	<0.97	50	50	44.8	43.3	90	87	29-136	3	25		
Carbon tetrachloride	ug/L	<0.17	50	50	55.6	55.3	111	111	73-142	1	20		
Chlorobenzene	ug/L	<0.71	50	50	53.4	53.2	107	106	70-130	0	20		
Chloroethane	ug/L	<1.3	50	50	49.5	52.2	99	104	58-138	5	20		
Chloroform	ug/L	<1.3	50	50	53.7	55.0	107	110	80-131	2	20		
Chloromethane	ug/L	<2.2	50	50	37.5	35.7	75	71	24-125	5	20		
cis-1,2-Dichloroethene	ug/L	4.8	50	50	54.6	57.1	100	105	68-137	4	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.7	48.7	99	97	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	48.6	49.1	97	98	70-131	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	25.2	24.2	50	48	10-127	4	20		
Ethylbenzene	ug/L	<0.22	50	50	54.7	54.2	109	108	81-136	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	55.7	55.3	111	111	70-132	1	20		
m&p-Xylene	ug/L	<0.47	100	100	109	108	109	108	70-135	1	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	36.2	37.1	72	74	58-142	2	23		
Methylene Chloride	ug/L	<0.58	50	50	55.4	55.2	111	110	69-137	0	20		
o-Xylene	ug/L	<0.26	50	50	52.5	52.9	105	106	70-132	1	20		
Styrene	ug/L	<0.47	50	50	54.6	53.9	109	108	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	52.9	50.2	106	100	70-132	5	20		
Toluene	ug/L	<0.17	50	50	51.2	50.5	102	101	81-130	1	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	51.7	52.1	103	104	70-136	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.1	43.6	86	87	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	57.1	53.6	114	107	70-131	6	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	58.5	59.5	117	119	66-150	2	20		
Vinyl chloride	ug/L	2.6	50	50	46.6	47.2	88	89	46-134	1	20		
4-Bromofluorobenzene (S)	%						95	97	70-130				
Dibromofluoromethane (S)	%						100	109	70-130				
Toluene-d8 (S)	%						93	95	70-130				

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN
Pace Project No.: 40178923

QC Batch: 305676 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178923002, 40178923003

METHOD BLANK: 1786500 Matrix: Water
Associated Lab Samples: 40178923002, 40178923003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/07/18 07:34	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/07/18 07:34	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/07/18 07:34	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/07/18 07:34	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/07/18 07:34	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/07/18 07:34	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/07/18 07:34	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/07/18 07:34	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/07/18 07:34	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/07/18 07:34	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/07/18 07:34	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/07/18 07:34	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/07/18 07:34	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/07/18 07:34	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/07/18 07:34	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/07/18 07:34	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/07/18 07:34	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/07/18 07:34	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/07/18 07:34	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/07/18 07:34	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/07/18 07:34	
2-Chlorotoluene	ug/L	<0.93	5.0	11/07/18 07:34	
4-Chlorotoluene	ug/L	<0.76	2.5	11/07/18 07:34	
Benzene	ug/L	<0.25	1.0	11/07/18 07:34	
Bromobenzene	ug/L	<0.24	1.0	11/07/18 07:34	
Bromochloromethane	ug/L	<0.36	5.0	11/07/18 07:34	
Bromodichloromethane	ug/L	<0.36	1.2	11/07/18 07:34	
Bromoform	ug/L	<4.0	13.2	11/07/18 07:34	
Bromomethane	ug/L	<0.97	5.0	11/07/18 07:34	
Carbon tetrachloride	ug/L	<0.17	1.0	11/07/18 07:34	
Chlorobenzene	ug/L	<0.71	2.4	11/07/18 07:34	
Chloroethane	ug/L	<1.3	5.0	11/07/18 07:34	
Chloroform	ug/L	<1.3	5.0	11/07/18 07:34	
Chloromethane	ug/L	<2.2	7.3	11/07/18 07:34	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/07/18 07:34	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/07/18 07:34	
Dibromochloromethane	ug/L	<2.6	8.7	11/07/18 07:34	
Dibromomethane	ug/L	<0.94	3.1	11/07/18 07:34	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/07/18 07:34	
Diisopropyl ether	ug/L	<1.9	6.3	11/07/18 07:34	
Ethylbenzene	ug/L	<0.22	1.0	11/07/18 07:34	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

METHOD BLANK: 1786500

Matrix: Water

Associated Lab Samples: 40178923002, 40178923003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/07/18 07:34	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/07/18 07:34	
m&p-Xylene	ug/L	<0.47	2.0	11/07/18 07:34	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/07/18 07:34	
Methylene Chloride	ug/L	<0.58	5.0	11/07/18 07:34	
n-Butylbenzene	ug/L	<0.71	2.4	11/07/18 07:34	
n-Propylbenzene	ug/L	<0.81	5.0	11/07/18 07:34	
Naphthalene	ug/L	<1.2	5.0	11/07/18 07:34	
o-Xylene	ug/L	<0.26	1.0	11/07/18 07:34	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/07/18 07:34	
sec-Butylbenzene	ug/L	<0.85	5.0	11/07/18 07:34	
Styrene	ug/L	<0.47	1.6	11/07/18 07:34	
tert-Butylbenzene	ug/L	<0.30	1.0	11/07/18 07:34	
Tetrachloroethene	ug/L	<0.33	1.1	11/07/18 07:34	
Toluene	ug/L	<0.17	5.0	11/07/18 07:34	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/07/18 07:34	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/07/18 07:34	
Trichloroethene	ug/L	<0.26	1.0	11/07/18 07:34	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/07/18 07:34	
Vinyl chloride	ug/L	<0.17	1.0	11/07/18 07:34	
4-Bromofluorobenzene (S)	%	94	70-130	11/07/18 07:34	
Dibromofluoromethane (S)	%	95	70-130	11/07/18 07:34	
Toluene-d8 (S)	%	98	70-130	11/07/18 07:34	

LABORATORY CONTROL SAMPLE: 1786501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.7	97	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	45.3	91	67-130	
1,1,2-Trichloroethane	ug/L	50	46.5	93	70-130	
1,1-Dichloroethane	ug/L	50	40.9	82	70-134	
1,1-Dichloroethene	ug/L	50	41.1	82	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.1	98	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.8	90	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	48.7	97	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	41.6	83	73-134	
1,2-Dichloropropane	ug/L	50	40.9	82	79-128	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	46.0	92	69-137	
Bromodichloromethane	ug/L	50	47.2	94	70-130	
Bromoform	ug/L	50	50.5	101	64-133	
Bromomethane	ug/L	50	22.8	46	29-123	

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

LABORATORY CONTROL SAMPLE: 1786501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	49.6	99	73-142	
Chlorobenzene	ug/L	50	50.1	100	70-130	
Chloroethane	ug/L	50	37.5	75	59-133	
Chloroform	ug/L	50	45.5	91	80-129	
Chloromethane	ug/L	50	21.2	42	27-125	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-134	
cis-1,3-Dichloropropene	ug/L	50	42.5	85	70-130	
Dibromochloromethane	ug/L	50	55.1	110	70-130	
Dichlorodifluoromethane	ug/L	50	18.6	37	12-127	
Ethylbenzene	ug/L	50	50.1	100	86-127	
Isopropylbenzene (Cumene)	ug/L	50	50.8	102	70-130	
m&p-Xylene	ug/L	100	101	101	70-131	
Methyl-tert-butyl ether	ug/L	50	36.5	73	65-136	
Methylene Chloride	ug/L	50	44.0	88	72-133	
o-Xylene	ug/L	50	48.7	97	70-130	
Styrene	ug/L	50	50.3	101	70-130	
Tetrachloroethene	ug/L	50	49.3	99	70-130	
Toluene	ug/L	50	48.6	97	84-124	
trans-1,2-Dichloroethene	ug/L	50	41.8	84	70-133	
trans-1,3-Dichloropropene	ug/L	50	42.8	86	67-130	
Trichloroethene	ug/L	50	47.4	95	70-130	
Trichlorofluoromethane	ug/L	50	46.2	92	69-147	
Vinyl chloride	ug/L	50	29.6	59	48-134	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786520 1786521

Parameter	Units	40178969002		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.8	50.3	100	101	70-136	1	20			
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	45.2	46.6	90	93	67-133	3	20			
1,1,2-Trichloroethane	ug/L	<0.55	50	50	45.8	47.9	92	96	70-130	4	20			
1,1-Dichloroethane	ug/L	0.44J	50	50	41.1	41.4	81	82	70-139	1	20			
1,1-Dichloroethene	ug/L	<0.24	50	50	41.6	43.1	83	86	72-137	3	20			
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.1	52.1	100	104	68-130	4	20			
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	43.5	46.8	87	94	60-130	7	21			
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.3	47.9	97	96	70-130	1	20			
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.3	52.2	101	104	70-130	4	20			
1,2-Dichloroethane	ug/L	<0.28	50	50	41.6	42.4	83	85	71-137	2	20			
1,2-Dichloropropane	ug/L	<0.28	50	50	41.4	42.3	83	85	78-130	2	20			
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.5	51.7	101	103	70-130	2	20			
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.4	50.6	99	101	70-130	2	20			

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QUALITY CONTROL DATA

Project: CHW8297 GETZEN

Pace Project No.: 40178923

Parameter	Units	1786520		1786521		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40178969002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	ug/L	<0.25	50	50	47.1	47.5	94	95	66-143	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	47.8	49.4	96	99	70-130	3	20		
Bromoform	ug/L	<4.0	50	50	49.8	50.4	100	101	64-134	1	20		
Bromomethane	ug/L	<0.97	50	50	24.0	24.7	48	49	29-136	3	25		
Carbon tetrachloride	ug/L	<0.17	50	50	49.4	50.2	99	100	73-142	1	20		
Chlorobenzene	ug/L	<0.71	50	50	50.5	51.4	101	103	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	37.2	37.6	74	75	58-138	1	20		
Chloroform	ug/L	<1.3	50	50	46.8	46.6	94	93	80-131	0	20		
Chloromethane	ug/L	<2.2	50	50	21.3	21.7	43	43	24-125	2	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.3	46.5	91	93	68-137	3	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	43.1	43.9	86	88	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	55.0	55.7	110	111	70-131	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	17.9	17.6	36	35	10-127	2	20		
Ethylbenzene	ug/L	<0.22	50	50	50.3	51.5	101	103	81-136	2	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.6	51.7	101	103	70-132	2	20		
m&p-Xylene	ug/L	<0.47	100	100	102	103	102	103	70-135	2	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	37.0	37.2	74	74	58-142	1	23		
Methylene Chloride	ug/L	<0.58	50	50	44.4	45.4	89	91	69-137	2	20		
o-Xylene	ug/L	<0.26	50	50	48.6	51.0	97	102	70-132	5	20		
Styrene	ug/L	<0.47	50	50	50.7	51.4	101	103	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	50.2	51.6	100	103	70-132	3	20		
Toluene	ug/L	<0.17	50	50	49.9	50.5	100	101	81-130	1	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	42.7	42.9	85	86	70-136	0	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.7	44.1	87	88	67-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	49.0	49.2	98	98	70-131	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	47.3	47.1	95	94	66-150	0	20		
Vinyl chloride	ug/L	<0.17	50	50	29.5	31.1	59	62	46-134	5	20		
4-Bromofluorobenzene (S)	%						96	97	70-130				
Dibromofluoromethane (S)	%						96	96	70-130				
Toluene-d8 (S)	%						98	98	70-130				

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CHW8297 GETZEN

Pace Project No.: 40178923

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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: CHW8297 GETZEN

Pace Project No.: 40178923

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178923001	MW-11	EPA 8260	305449		
40178923002	MW-12	EPA 8260	305676		
40178923003	MW-13	EPA 8260	305676		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Document No.:
F-GB-C-031-Rev.07

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Geosyntec

Project #:

WO#: **40178923**

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



40178923

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 - N/A Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT ICorr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 11-2-18

Initials: SW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

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:	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	8.
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 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 type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

If checked, see attached form for additional comments

Comments/ Resolution: _____

Project Manager Review: _____

Date: 11-5-18