

SHEBOYGAN WATER UTILITY

2017 Water Quality Analysis

Updated February 28, 2018

Explanation of units: since one gallon of water weighs 8.34 pounds, one million gallons of water weighs 8,340,000 pounds. When 8.34 pounds of a pure substance is added to one million gallons of water the concentration would be one part per million.

parts per million (ppm) = milligrams per liter (mg/L) = 1 in 1,000,000
 parts per billion (ppb) = micrograms per liter (ug/L) = 1 in 1,000,000,000
 parts per trillion (ppt) = nanograms per liter (ng/L) = 1 in 1,000,000,000,000
 parts per quadrillion (ppq) = picograms per liter (pg/L) = 1 in 1,000,000,000,000,000

Just how small are these terms in other units?

Unit =	<u>1 part per million</u>	<u>1 part per billion</u>	<u>1 part per trillion</u>	<u>1 part per quadrillion</u>
Length =	1 inch in 16 miles	1 inch in 16,000 miles	1 inch in 16,000,000 miles	1 inch in 16,000,000,000 miles
Time =	1 minute in 2 years	1 minute in 2,000 years	1 min. in 2,000,000 years	1 min. in 2,000,000,000 years
Money =	1 cent in \$10,000	1 cent in \$10,000,000	1 cent in \$10,000,000,000	1 cent in \$10,000,000,000,000

Important Water Terms:

Maximum Contaminant Level (MCL): Highest level of a contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal (MCLG): Level of a contaminant in drinking water below which there is no known or expected risk to health.

Turbidity: A measure of the clarity of water reported in Nephelometric Turbidity Units (NTU's). Is just noticeable to the average person in excess of 5 NTU.

Non-Detects (ND): Laboratory analysis indicates that the constituent is not present.

No Standard (NS): The Environmental Protection Agency (EPA) has not determined standards for these substances.

Not Tested (NT): The constituent was not tested for.

Million Fibers per Liter (mfl): The measure of the presence of asbestos fibers that are longer than 10 micrometers.

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

MDL: Minimum detection level. Lowest amount that can be detected in the laboratory.

Not Applicable (NA): The test results vary with incoming water quality.

Results reported in less than (<) units indicate the amount of the chemical being tested for is "less than" the detection limit of the machines used to do the analysis.

<u>Physical</u>	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Temperature	continuous	NS	NS	33 to 62 deg. F	33 to 64 deg. F
pH	daily	6.5 to 8.5	NS	average of 7.57	average of 8.22
Color	continuous	15 Units	NS	< 1 color unit	average of 5
Total Residue	Monthly	NS	NS	180 ppm	NA
Turbidity	continuous	0.30 ntu	NS	average of 0.020 NTU	average of 5.53 NTU
Conductivity	continuous	NS	NS	average of 147.7ns/cm @ 6.2 C°	average of 148.4ns/cm @ 6.2 C°

II Inorganic

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Alkalinity, total CaCO ₃	daily	NS	NS	average of 100 ppm	average of 108 ppm
Aluminum (Al)	2006	.05-.2 ppm	NS	.074 ppm	NT
Antimony (Sb)	2017	6,000 ppt	6,000 ppt	200 ppt	NT
Arsenic (As)	2017	10,000 ppt	n/a	500 ppt	NT
Asbestos, Total	2003	7 mfl > 10 microns	7 mfl > 10 microns	<0.085	NT
Barium (Ba)	2017	2,000 ppb	2,000 ppb	21 ppb	NT
Beryllium (Be)	2017	4,000 ppt	4,000 ppt	<70 ppt	<300 ppt
Cadmium (Cd)	2017	5,000 ppt	5,000 ppt	<300 ppt	<200 ppt
Calcium (Ca)	2010	NS	NS	34,000 ppb	NT
Chloride (Cl), Total	1999	250,000 ppb	NS	11,000 ppb	NT
Chlorine, free Cl ₂	continuous	4,000 ppb	NS	ave. of 0.910 ppb	ND
Chromium (Cr), Total	2017	100 ppb	100 ppb	600 ppt	NT
Copper (Cu)	2011	1,300 ppb	1,300 ppb	<20 ppb	NT
Cyanide, Total	1999	200 ppb	200 ppb	<10 ppb	NT
Fluoride (F)	continuous	4 ppm	4 ppm	ave. of 0.680 ppm	0.15 ppm
Foaming Agents (MBAS)	2003	500 ppb	NS	<200 ppb	NT
Hardness, Total as CaCO ₃	monthly	NS	NS	155 ppm	NT
Iron (Fe)	1999	300 ppb	NS	<100 ppb	NT
Lead (Pb)	2017	15 ppb	0	<1.0 ppb	NT
Magnesium (Mg), Total	1999	NS	NS	11,000 ppb	NT
Manganese (Mn)	1999	50,000 ppt	NS	600 ppt	NT
Mercury (Hg)	2017	2,000 ppt	2,000 ppt	<40 ppt	<100 ppt
Nickel (Ni)	2017	100,000 ppt	NS	600 ppt	<1000 ppt
Nitrogen, NO ₃ -N, Nitrate	2017	10,000 ppb	10,000 ppb	260 ppb	NT
Nitrates, NO ₃ + NO ₂ (Total)	2017	10,000 ppb	10,000 ppb	260 ppb	NT
Nitrogen, NO ₂ -N, Nitrite	2017	1,000 ppb	1,000 ppb	<10 ppb	<10 ppb
Orthophosphate (as PO ₄)	Daily	NS	NS	670 ppb	NT
Selenium (Se)	2017	50 ppb	50 ppb	<0.6 ppb	<2 ppb
Silver (Ag)	1999	50 ppb	NS	<2.0 ppb	NT
Sodium (Na)	2017	500,000 ppb	NS	9300 ppb	NT
Sulfate (SO ₄)	2017	250,000 ppb	NS	24,000 ppb	NT
Thallium (Tl)	2017	2,000 ppt	NS	<90 ppt	<200 ppt
Zinc (Zn)	1999	5,000,000 ppt	NS	<5000 ppt	NT

III Disinfection By-Products

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
<u>Total Trihalomethanes (TTHMs) :</u>		80,000 ppt		Average of 4 samples	No Standard
Bromodichloromethane	2017	NS	0 ppt	8,575 ppt	NT
Bromoform	2017	NS	0 ppt	<500 ppt	NT
Chloroform	2017	NS	0 ppt	14,213 ppt	NT
Dibromochloromethane	2017	NS	0 ppt	3,750 ppt	NT
		80,000 ppt		Total 26,850 ppt	No Standard
<u>Total Haloacetic Acids (THAAs) :</u>		60,000 ppt		Average of 4 samples	No Standard
Dibromoacetic Acid	2017	NS	NS	<1,000 ppt	NT
Dichloroacetic Acid	2017	NS	NS	4,388 ppt	NT
Monobromoacetic Acid	2017	NS	NS	<1,000 ppt	NT
Monochloroacetic Acid	2017	NS	NS	<2,000 ppt	NT
Trichloroacetic Acid	2017	NS	NS	5,475 ppt	NT
		60,000 ppt		Total 10,175 ppt	No Standard

IV Radioactivity

				MDL		
Gross Alpha	2009	15 pCi/l	0 pCi/l	2.3	0.18 +/- 1.22 pCi/L	NT
Gross Beta	2002	50 pCi/l	0 pCi/l	1.9	1.2 +/- 1.3 pCi/L	NT
Radium 226	2009	20 pCi/l	0 pCi/l	0.53	0.02 +/- 0.23 pCi/L	NT
Radium 228	2009	20 pCi/l	0 pCi/l	0.93	0.74 +/- 0.60	NT
Uranium Total	2008	30 pCi/l	0 pCi/l	1.00	0.12 +/- 0.10	NT

V Volatile Organic Compounds (VOCs)

Benzene	2017	5,000 ppt	1,000 ppt	<100 ppt	<500 ppt
Bromobenzene	2017	NS	NS	<100 ppt	<500 ppt
Bromochloromethane	2017	NS	NS	<100 ppt	<500 ppt
Bromodichloromethane	2017	NS	0 ppt	11 ppb	NT
Bromoform	2017	NS	NS	<200 ppt	NT
Bromomethane	2017	NS	NS	<400 ppt	<500 ppt
n-Butylbenzene	2011	NS	NS	<500 ppt	<500 ppt
sec-Butylbenzene	2011	NS	NS	<500 ppt	<500 ppt
tert-Butylbenzene	2011	NS	NS	<500 ppt	<500 ppt
Carbon Tetrachloride	2017	5,000 ppt	0 ppt	<100 ppt	<500 ppt
Chlorobenzene	2011	100,000 ppt	100,000 ppt	<500 ppt	<500 ppt
Chlorethane	2017	NS	NS	<200 ppt	<500 ppt

V Volatile Organic Compounds (VOCs) continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Chloroform	2017	NS	NS	19.0 ppb	NT
Chloromethane	2017	NS	NS	<200 ppt	<500 ppt
2-Chlorotoluene (o-)	2017	NS	NS	<100 ppt	<500 ppt
4-Chlorotoluene (p-)	2017	NS	NS	<100 ppt	<500 ppt
Dibromomethane	2017	5,000 ppt	NS	<100 ppt	<500 ppt
Dibromochloromethane	2017	NS	NS	3.3 ppb	NT
Dichloromethane (DCM)	2017	5,000 ppt	0 ppt	<200 ppt	<500 ppt
1, 3-Dichlorobenzene (m-)	2017	NS	NS	<100 ppt	<500 ppt
1, 2-Dichlorobenzene (o-)	2017	600 ppb	600 ppb	<100 ppt	<500 ppt
1, 4-Dichlorobenzene (p-)	2017	75 ppb	75 ppb	<100 ppt	<500 ppt
Dichlorodifluoromethane	2017	NS	NS	<200 ppt	<500 ppt
1,1-Dichloroethane	2017	NS	NS	<200 ppt	<500 ppt
1,2-Dichloroethane	2017	5,000 ppt	0 ppt	<100 ppt	<500 ppt
1, 1-Dichloroethylene	2017	7,000 ppt	7,000 ppt	<100 ppt	<500 ppt
1, 2-Dichloroethylene, cis	2017	70,000 ppt	70,000 ppt	<100 ppt	<500 ppt
1, 2-Dichloroethylene, trans	2017	100,000 ppt	100,000 ppt	<500 ppt	<500 ppt
1, 2-Dichloropropane	2017	5,000 ppt	0 ppt	<100 ppt	<500 ppt
1, 3-Dichloropropane	2017	NS	NS	<100 ppt	<500 ppt
1, 1-Dichloropropene	2017	NS	NS	<300 ppt	<500 ppt
2, 2-Dichloropropane	2017	NS	NS	<100 ppt	<500 ppt
1,1-Dichloropropylene	2017	NS	NS	<300 ppt	<500 ppt
1,3-Dichloropropylene, cis	2017	NS	NS	<100 ppt	<500 ppt
1,3-Dichloropropylene trans	2017	NS	NS	<100 ppt	<500 ppt
1, 3-Dichloropropene	2017	NS	NS	<500 ppt	<500 ppt
Ethylbenzene	2017	700,000 ppt	700,000 ppt	<100 ppt	<500 ppt
Hexachlorobutadiene	2017	NS	NS	<100 ppt	<500 ppt
Isopropylbenzene	2017	NS	NS	<100 ppt	<500 ppt
4-Isopropyltoluene	2017	NS	NS	<100 ppt	<500 ppt
Methyl-t-butyl ether (MTBE)	2017	NS	NS	<200 ppt	<500 ppt
Naphthalene	2017	NS	NS	<300 ppt	<500 ppt
Chlorobenzene	2017	100,000 ppt	100,000 ppt	<100 ppt	NT
n-Propylbenzene	2017	NS	NS	<100 ppt	<500 ppt
Styrene	2017	100,000 ppt	100,000 ppt	<200 ppt	<500 ppt
1,1,1, 2-Tetrachloroethane	2017	NS	NS	<100 ppt	<500 ppt

V Volatile Organic Compounds (VOCs) continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
1,1,2, 2-Tetrachloroethane	2017	NS	NS	<100 ppt	<500 ppt
Tetrachloroethylene (PCE)	2017	5,000 ppt	0 ppt	<300 ppt	<500 ppt
Toluene	2017	1,000,000 ppt	1,000,000 ppt	<100 ppt	<500 ppt
1,2, 3-Trichlorobenzene	2017	NS	NS	<300 ppt	<500 ppt
1,2, 4-Trichlorobenzene	2017	70,000 ppt	70,000 ppt	<300 ppt	<500 ppt
1,1, 1-Trichloroethane	2017	200,000 ppt	200,000 ppt	<100 ppt	<500 ppt
1,1, 2-Trichloroethane	2017	5,000 ppt	3,000 ppt	<100 ppt	<500 ppt
Trichloroethylene (TCE)	2017	5,000 ppt	0 ppt	<200 ppt	<500 ppt
Trichlorofluoromethane	2017	NS	NS	<100 ppt	<500 ppt
1,2, 3-Trichloropropane	2017	NS	NS	<100 ppt	<500 ppt
1,2,4-Trimethylbenzene	2017	NS	NS	<100 ppt	<500 ppt
1,2,5-Trimethylbenzene	2017	NS	NS	<100 ppt	<500 ppt
1,3,5-Trimethylbenzene	2017	NS	NS	<100 ppt	NT
Vinyl Chloride	2017	200 ppt	0 ppt	<200 ppt	<200 ppt
Xylene, Total	2017	10,000,000 ppt	10,000,000 ppt	<100 ppt	<500 ppt
m(1,3) & p(1,4) Xylene	2017	NS	NS	<200 ppt	<500 ppt
o(1,2)-Xylene	2017	NS	NS	<100 ppt	<500 ppt

VI Synthetic Organic Compounds (SOCs) and Pesticides, Herbicides and PCBs

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Alachlor (Lasso)	2017	2,000 ppt	0 ppt	<10 ppt	<200 ppt
Aldicarb, Total	2017	3,000 ppt	NS	<100 ppt	<500 ppt
Aldicarb Sulfone	2017	2,000 ppt	NS	<100 ppt	<400 ppt
Aldicarb Sulfoxide	2017	4,000 ppt	NS	<100 ppt	<500 ppt
Aldrin	2017	NS	NS	<10 ppt	<100 ppt
Atrazine	2017	3,000 ppt	3,000 ppt	0.04 ppb	<100 ppt
Benzo(a)pyrene (PAHs)	2002	200 ppt	0 ppt	<20 ppt	NT
Butachlor	2017	NS	NS	<10 ppt	<100 ppt
Carbaryl	2017	NS	NS	<100 ppt	<100 ppt
Carbofuran	2017	40,000 ppt	40,000 ppt	<10 ppt	<900 ppt
Chlordane alpha	1994	NS	NS	<100 ppt	NT

VI Synthetic Organic Compounds (SOCs) and Pesticides, Herbicides and PCBs continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Chlordane gamma	1994	NS	NS	<100 ppt	NT
Chlordane	2011	2,000 ppt	0 ppt	<100 ppt	<100 ppt
2, 4-D	2017	70,000 ppt	70,000 ppt	<100 ppt	<100 ppt
Dalapon	2017	200 ppb	200 ppb	0.37 ppb	<1.0 ppb
1, 2-Dibromo-3-chloropropane (DBCP)	2011	200 ppt	0 ppt	<20 ppt	NT
Dicamba	2017	NS	NS	<100 ppt	<100 ppt
Dieldrin	2017	NS	NS	<20 ppt	<100 ppt
Di (2-ethylhexyl) adipate	2017	400,000 ppt	400,000 ppt	<600 ppt	NT
Di (2-ethylhexyl) phthalate	2017	6,000 ppt	0 ppt	<600 ppt	NT
2,3,7, 8-TCDD (Dioxin)	2014	30 ppq	0 ppq	<0.5 ppq	NT
Dinoseb	2017	7,000 ppt	7,000 ppt	<70 ppt	<100 ppt
Diquat	2017	20,000 ppt	20,000 ppt	<300 ppt	<400 ppt
Endothall	2017	100 ppb	100 ppb	<4.0 ppb	<9.0 ppb
Endrin	2017	2,000 ppt	2,000 ppt	<10 ppt	<10 ppt
Ethylene dibromide (EDB)	2011	50 ppt	0 ppt	<20 ppt	NT
Glyphosate (Round-up)	2017	700 ppb	700 ppb	<4.0 ppb	<6.0 ppb
Heptachlor	2017	400 ppt	0 ppt	<10 ppt	<40 ppt
Heptachlor epoxide	2017	200 ppt	0 ppt	<10 ppt	< 20 ppt
Hexachlorobenzene	2017	1,000 ppt	0 ppt	<10 ppt	<100 ppt
Hexachlorocyclopentadiene (HEX)	2017	50,000 ppt	50,000 ppt	0.02 ppb	<100 ppt
3-Hydroxycarbofuran	2017	40 ppb	40 ppb	<0.1 ppb	<1.0 ppb
BHC Gamma (Lindane)	2017	200 ppt	200 ppt	<10 ppt	<20 ppt
Methoxychlor	2017	40,000 ppt	40,000 ppt	<100 ppt	<100 ppt
Methomyl	2017	NS	NS	<10 ppt	<500 ppt
Metolachlor (Dual)	2017	NS	NS	<10 ppt	<100 ppt
Metribuzin (Sencor)	2011	NS	NS	<10 ppt	<100 ppt
Oxamyl (Vydate)	2011	200 ppb	200 ppb	<0.1 ppb	<1.0 ppb
Pentachlorophenol	2011	1,000 ppt	0 ppt	<10 ppt	<40 ppt
Picloram (Tordon)	2011	500,000 ppt	500,000 ppt	<30 ppt	<100ppt
Propachlor	2011	NS	NS	<10 ppt	<100 ppt
2,4, 5-TP (Silvex)	2011	50,000 ppt	50,000 ppt	<70 ppt	<100 ppt
Simazine	2011	4,000 ppt	4,000 ppt	<20 ppt	<70 ppt
Toxaphene	2011	3 ppb	0 ppb	<0.9 ppb	<1.0 ppb

VI Synthetic Organic Compounds (SOCs) and Pesticides, Herbicides and PCBs continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Polychlorinated Biphenyls (PCBs) :		500 ppt	0 ppt		
Aroclor 1016	2017	500 ppt	0 ppt	<800 ppt	<800 ppt
Aroclor 1232	2017	500 ppt	0 ppt	<230 ppt	<230 ppt
Aroclor 1248	2017	500 ppt	0 ppt	<100 ppt	<100 ppt
Aroclor 1260	2017	500 ppt	0 ppt	<200 ppt	<200 ppt
Aroclor 1221	2017	500 ppt	0 ppt	<190 ppt	<190 ppt
Aroclor 1242	2017	500 ppt	0 ppt	<260 ppt	<260 ppt
Aroclor 1254	2017	500 ppt	0 ppt	<100 ppt	<100 ppt

VII Microbiological Contaminants

MCL: No more than 5% of the 50 monthly Tap samples can be Total Coliform Positive.

Bacteria:

Total Coliform Positive

Escherichia Coliforms (E. coli.) Positive

MCLG

0.00%

0.00%

2017
Tap Water
Results

0.0 in 964 tests

0.0 in 964 tests

2017
Raw Water
Results

334 in 365 tests

139 in 365 tests

Pathogenic Protozoa:

Cryptosporidium parvum

Giardia lamblia

MCL

0

0

MCLG

0

0

2017
Tap Water
Results

0 in 12 tests

0 in 12 tests

2017
Raw Water
Results

0 in 12 tests

0 in 12 tests

VIII Unregulated Contaminants

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Acetochlor (herbicide)	2009	NS	NS	<1.0 ppb	<1.0 ppb
2,4-Dinitrotoluene (explosives)	2002	NS	NS	<2.0 ppb	<2.0 ppb
2,6-Dinitrotoluene (explosives)	2002	NS	NS	<2.0 ppb	<2.0 ppb
DCPA acid metaolites (herbicide)	2002	NS	NS	<1.0 ppb	<1.0 ppb
4,4'-DDE (insecticide)	2002	NS	NS	<0.8 ppb	<0.8 ppb
EPTC (herbicide)	2002	NS	NS	<1.0 ppb	<1.0 ppb
Molinate (herbicide)	2002	NS	NS	<0.9 ppb	<0.9 ppb
MTBE (gasoline additive)	2002	NS	NS	<5.0 ppb	<5.0 ppb
Nitrobenzene (dyes, drugs, herbi.)	2002	NS	NS	<10 ppb	<10 ppb
Terbacil (herbicide)	2002	NS	NS	<2.0 ppb	<2.0 ppb
Perchlorate (solid fuel rockets)	2002	NS	NS	<4.0 ppb	<4.0 ppb

IX UMCR2 Assessment Monitoring

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Dimethoate	2010	NS	NS	<0.7 ppb	NT
2,2',4,4',5,5'-Hexambromobipheny (HBB	2010	NS	NS	<0.7 ppb	NT
2,2',4,4',5,5'-Hexambromobipheny ether (BDE-153)	2010	NS	NS	<0.8 ppb	NT
2,2',4,4',5-Pentabromobipheny ether (BDE-99)	2010	NS	NS	<0.9 ppb	NT
2,2',4,4',6-Pentabromobipheny ether (BDE-100)	2010	NS	NS	<0.5 ppb	NT
Terbufos-sulfone	2010	NS	NS	<0.4 ppb	NT
2,2',4,4'-Tetrabromodiphenyl ether (BDE-47)	2010	NS	NS	<0.3 ppb	NT
1,3-Dinitrobenzene	2010	NS	NS	<0.8 ppb	NT
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	2010	NS	NS	<1.0 ppb	NT
TNT (2,4,6-Trinitrotoluene)	2010	NS	NS	<0.8 ppb	NT

X UMCR2 Screening Survey

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Distribution System Results</u>
N-Nitrosodiethylamine (NDEA)	2010	NS	NS	<0.0050 ppb	<0.0050 ppb
N-Nitrosodimethylamine (NDMA)	2010	NS	NS	<0.0020 ppb	<0.0020 ppb
N-Nitrosodi-N-butylamine (NDBA)	2010	NS	NS	<0.0040 ppb	<0.0040 ppb
N-Nitrosodi-N-propylamine (NDPA)	2010	NS	NS	<0.0070 ppb	<0.0070 ppb
N-Nitrosomethylethylamine (NMEA)	2010	NS	NS	<0.0030 ppb	<0.0030 ppb
N-Nitrosopyrrolidine (NPYR)	2010	NS	NS	<0.0020 ppb	<0.0020 ppb
Acetochlor ESA	2010	NS	NS	<1.0 ppb	NT
Acetochlor OA	2010	NS	NS	<2.0 ppb	NT
Alachlor ESA	2010	NS	NS	<1.0 ppb	NT
Alachlor OA	2010	NS	NS	<2.0 ppb	NT
Metolachlor ESA	2010	NS	NS	<1.0 ppb	NT
Metolachlor OA	2010	NS	NS	<2.0 ppb	NT

XI Pharmaceutically Active Compounds

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Acetaminophen	2017	NS	NS	<0.005 ppb	NT
Acesulfame-K	2017	NS	NS	0.16 ppb	NT
Antipyrine	2017	NS	NS	<0.001 ppb	NT
Atenolol	2017	NS	NS	<0.001 ppb	NT
Azithromycin	2017	NS	NS	<0.005 ppb	NT
Bacitracin	2011	NS	NS	<1.0 ppb	NT
Bezafibrate	2017	NS	NS	<0.0005 ppb	NT
Caffeine	2017	NS	NS	<0.05 ppb	NT
Carbadox	2017	NS	NS	<0.005 ppb	NT
Carbamazepine	2017	NS	NS	<0.001 ppb	NT
Chloramphenicol	2017	NS	NS	<0.005 ppb	NT
Chlorotetracycline	2017	NS	NS	<0.005 ppb	NT
Ciprofloxacin	2017	NS	NS	<0.05 ppb	NT
Clofibric acid	2017	NS	NS	<0.0005 ppb	NT
Cotinine	2017	NS	NS	0.002 ppb	NT
DEET	2017	NS	NS	0.008 ppb	NT
Dexamethasone	2017	NS	NS	<0.005 ppb	NT
Diazepam	2017	NS	NS	<0.001 ppb	NT
Diclofenac	2017	NS	NS	<0.0005 ppb	NT
Dilantin	2017	NS	NS	<0.002 ppb	NT
Diltiazem	2017	NS	NS	<0.0001 ppb	NT
Doxycycline	2017	NS	NS	<0.05 ppb	NT
Enrofloxacin	2017	NS	NS	<0.05 ppb	NT
Erythromycin	2017	NS	NS	<0.001 ppb	NT
Fluoxetine (Prozac)	2017	NS	NS	<0.001 ppb	NT
Gemfibrozil	2017	NS	NS	<0.0005 ppb	NT
Ibuprofen	2017	NS	NS	<0.05 ppb	NT
Iopromide	2017	NS	NS	<0.05 ppb	NT
Lasalocid	2017	NS	NS	<0.001 ppb	NT
Levothyroxine (Synthroid)	2017	NS	NS	<0.002 ppb	NT
Lincomycin	2017	NS	NS	<0.0001 ppb	NT
Meprobamate	2017	NS	NS	<0.001 ppb	NT

XI Pharmaceutically Active Compounds continued

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Tap Water Results</u>	<u>Raw Water Results</u>
Monensin	2017	NS	NS	0.001	NT
Naproxen	2017	NS	NS	<0.002 ppb	NT
Narasin	2017	NS	NS	<0.001 ppb	NT
Nicotine	2017	NS	NS	<0.005 ppb	NT
Norfloxacin	2017	NS	NS	<0.05 ppb	NT
Oleandomycin	2017	NS	NS	<0.001 ppb	NT
Oxytetracycline	2017	NS	NS	<0.05 ppb	NT
Paraxanthine	2017	NS	NS	<0.005 ppb	NT
Penicillin G	2017	NS	NS	<0.002 ppb	NT
Pencillin V	2017	NS	NS	<0.002 ppb	NT
Prednisone	2017	NS	NS	<0.002 ppb	NT
Primidone	2017	NS	NS	<0.005 ppb	NT
Roxithromycin	2017	NS	NS	<0.001 ppb	NT
Salicylic acid	2017	NS	NS	<0.05 ppb	NT
Salinomycin	2017	NS	NS	<0.0001 ppb	NT
Simvastatin	2017	NS	NS	<0.005 ppb	NT
Sulfachloropyridazine	2017	NS	NS	<0.005 ppb	NT
Sulfadiazine	2017	NS	NS	<0.001 ppb	
Sulfadimethoxine	2017	NS	NS	<0.0001 ppb	NT
Sulfamerazine	2017	NS	NS	<0.001 ppb	NT
Sulfamethazine	2017	NS	NS	<0.001 ppb	NT
Sulfamethizole	2017	NS	NS	<0.001 ppb	NT
Sulfamethoxazole	2017	NS	NS	<0.001 ppb	NT
Sulfasalazine	2017	NS	NS	<0.005 ppb	NT
Sulfathiazole	2017	NS	NS	<0.001 ppb	NT
Sucralose	2017	NS	NS	0.038 ppb	NT
Tetracycline	2017	NS	NS	<0.5 ppb	NT
Theobromine	2017	NS	NS	<0.05 ppb	NT
Thephylline	2017	NS	NS	<0.005 ppb	NT
Triclocarban	2017	NS	NS	<0.005 ppb	NT
Triclosan	2017	NS	NS	<0.05 ppb	NT
Trimethoprim	2017	NS	NS	<0.001 ppb	NT
Tylosin	2017	NS	NS	<0.001 ppb	NT
Tris(2-chloroethyl) phosphate	2017	NS	NS	<0.01 ppb	NT
Tris(chloroethyl) phosphate	2017	NS	NS	0.01 pbb	NT
Virginiamycin M1	2017	NS	NS	<0.001 ppb	NT

XII UMCR3 Assessment Monitoring

	<u>Date of Last Test</u>	<u>MCL</u>	<u>MCLG</u>	<u>Range</u>	<u>Tap Water</u>	<u>Distribution System</u>
					<u>Results</u>	<u>Results</u>
					<u>Average of 2 Samples</u>	<u>Average of 2 Samples</u>
Chromium	2014	100 ppb	100 ppb	<.2-.2 ppb	.25 ppb	.2 ppb
Cobalt	2014	NS	NS		< 1 ppb	< 1 ppb
Molybdenum	2014	NS	NS	<1-1 ppb	1 ppb	1 ppb
Strontium	2014	NS	NS	110-120 ppb	125 ppb	120 ppb
Vanadium	2014	NS	NS	.3 ppb	.3 ppb	.3 ppb
Chromium, Hexavalent	2014	NS	NS	.19-.20 ppb	.21 ppb	0.2 ppb
Chlorate	2014	NS	NS	65-140 ppb	46 ppb	54 ppb
1,4-Dioxane	2014	NS	NS		< .07 ppb	NT
Bromochloromethane	2014	NS	NS		< .06 ppb	NT
Bromomethane	2014	NS	NS		< .2 ppb	NT
1,3-Butadiene	2014	NS	NS		< .1 ppb	NT
Chlorodifluoromethane	2014	NS	NS		< .08 ppb	NT
Chloromethane	2014	NS	NS		< .2 ppb	NT
1,1-Dichloroethane	2014	NS	NS		< .03 ppb	NT
1,2,3-Trichloropropane	2014	NS	NS		< .03 ppb	NT
Perfluorobutanesulfonic acid (PFBS)	2014	NS	NS		< .09 ppb	NT
Perfluoroheptanoic acid (PFHpA)	2014	NS	NS		< .01 ppb	NT
Perfluorohexanesulfonic acid (PFHxS)	2014	NS	NS		< .03 ppb	NT
Perfluorononanoic acid (PFNA)	2014	NS	NS		< .02 ppb	NT
Perfluorooctanesulfonic acid (PFOS)	2014	NS	NS		< .04 ppb	NT
Perfluorooctanoic acid (PFOA)	2014	NS	NS		<.02 ppb	NT

XIII Lead and Copper

	<u>Date of Last Test</u>	<u>MCL (Action Level)</u>	<u>MCLG</u>	<u>Distribution System</u>
				<u>90th Percentile Results</u>
Lead	2017	15 ppb	0	7.5 ppb
Copper	2017	1300 ppb	1300 ppb	59 ppb

