City of St. Marys Drinking Water Quality - 2018 Complete Contaminant Monitoring List

Drinking water quality is regulated by the Safe Drinking Water Act and the Environmental Protection Agency (EPA). In Ohio, di water standards are set in two catego- ries - primary and secondary standards. In the table below you will find a complete listing of both types of standards, and the most recent test results for the more than 130 contaminants we monitor in our drinking water. St. Marys meets all Federal and State drinking water standards. The table shows amounts in milligrams per liter (mg/L) which is the same as parts per million. To put that in perspective, consider that one part per million is equal to a single inch in 16 miles! The lower the results, the better the quality.

Primary, Health-Related Standards

Parameter	Year	MCLG	MCL	St. Marys
Inorganic Contaminants (mg/L)				
Antimony	2017	0.006	0.006	<0.003
Arsenic	2017	N/A	0.010	<0.003
Asbestos (mf/l > 10 um)	2011	7	7	<0.2
Barium	2017	2	2	<0.01
Beryllium	2017	0	0.004	<0.0005
Cadmium	2017	0.005	0.005	<0.0005
Chromium	2017	0.1	0.1	<0.01
Cyanide	2017	0..2	0.2	<0.005
Fluoride	2017	4.0	4.0	0.371
Mercury	2017	0.002	0.002	<0.0002
Nickel	2017	0.1	0.1	<0.01
Nitrate as Nitrogen	2018	10.0	10.0	<0.10
Nitrate + Nitrite as Nitrogen	2018	10.0	10.0	<0.10
Nitrite as Nitrogen	2018	N/A	1.0	<0.10
Selenium	2017	0.05	0.05	0.003
Thallium	2017	0.0005	0.002	<0.001
Copper (Action Level, not MCL)	2014	1.3	1.3	0.039
Lead (Action Level, not MCL)	2014	0	0.015	0.0026
Disinfection Byproducts (ug/L)				
Disinfectants, Total Chlorine	2018	Yearly Average	4.0	2.1
Haloacetic Acids (sum of HAA5 below)	2018	N/A	0.06	<6.0
- Dibromoacetic Acid	2018	N/A	N/A	<1.0
- Dichlororacetic Acid	2018	N/A	N/A	<1.0
- Monobromoacetic Acid	2018	N/A	N/A	<1.0
- Monochloroacetic Acid	2018	N/A	N/A	<2.0
- Trichloroacetic Acid	2018	N/A	N/A	<1.0
Trihalomethanes(sum of 4 THM below)	2018	N/A	0.08	<2.0
- Bromodichloromethane (1 of 4 THM)	2018	0	N/A	<0.5
- Bromoform (1 of 4 THM)	2018	0	N/A	<0.5
- Chloroform (1 of 4 THM)	2018	0	N/A	<0.5
- Dibromochloromethane (1 of 4 THM)	2018	0.06	N/A	<0.5
Volatile Organic Contaminants (mg/L)				
Benzene	2017	0	0.005	<0.0005
Carbon Tetrachloride	2017	0	0.005	<0.0005
o-Dichlorobenzene 1,2	2017	0.6	0.6	<0.0005
p-Dichlorobenzene 1,4	2017	0.075	0.075	<0.0005
1,2-Dichloroethane	2017	0	0.005	<0.0005
1,1-Dichloroethylene	2017	0.007	0.007	<0.0005
cis-1,2-Dichloroethylene	2017	0.07	0.07	<0.0005
trans,1,2-Dichloroethylene	2017	0.1	0.1	<0.0005
Dichloromethane	2017	0	0.005	<0.0005
1,2-Dichloropropane	2017	0	0.005	<0.0005
Ethylbenzene	2017	0.7	0.7	<0.0005
Chlorobenzene	2017	0.1	0.1	<0.0005
Styrene	2017	0.1	0.1	<0.0005
Tetrachloroethylene	2017	0	0.005	<0.0005
Toluene	2017	1	1	<0.0005
1,2,4-Trichlorobenzene	2017	0.07	0.07	<0.0005
1,1,1-Trichloroethane	2017	0.2	0.2	<0.0005
1,1,2-Trichloroethane	2017	0.003	0.005	<0.0005
Trichloroethylene	2017	0	0.005	<0.0005
Vinyl Chloride	2017	0	0.002	<0.0005
Xylenes (total)	2017	10	10	<0.0005
Bromobenzene	2005	N/A	N/A	<0.0005
Bromochloromethane	2008	N/A	N/A	<0.0005
Bromomethane	2008	N/A	N/A	<0.0005
n-Butylbenzene	2005	N/A	N/A	<0.0005
sec-Butylbenzene	2005	N/A	N/A	<0.0005
Chloroethane	2005	N/A	N/A	<0.0005
Chloromethane	2005	N/A	N/A	<0.0005
o-Chlorotoluene	2005	N/A	N/A	<0.0005
p-Chlorotoluene	2005	N/A	N/A	<0.0005
Dibromomethane	2008	N/A	N/A	<0.0005
m-Dichlorobenzene	2008	N/A	N/A	<0.0005
Dichlorodifluoromethane	2005	N/A	N/A	<0.0005
1,1-Dichloroethane	2005	N/A	N/A	<0.0005
1,3-Dichloropropane	2005	N/A	N/A	<0.0005
2,2-Dichloropropane	2005	N/A	N/A	<0.0005
1,1-Dichloropropene	2005	N/A	N/A	<0.0005
1,3-Dichloropropene	2005	N/A	N/A	<0.0005
Fluorotrichloromethane	2005	N/A	N/A	<0.0005
Hexachlorobutadiene	2005	N/A	N/A	<0.0005
Isopropylbenzene	2005	N/A	N/A	<0.0005
p-Isopropyltoluene	2005	N/A	<0.0005	
Naphthalene	2005	N/A	N/A	<0.0005
n-Propylbenzene	2005	N/A	N/A	<0.0005
1,1,1,2-Tetrachloroethane	2005	N/A	N/A	<0.0005
1,1,2,2-Tetrachloroethane	2005	N/A	N/A	<0.0005
1,2,3-Trichlorobenzene	2005	N/A	N/A	<0.0005
1,2,3-Trichloropropane	2005	N/A	N/A	<0.0005
1,2,4-Trimethylbenzene	2005	N/A	N/A	<0.0005
1,3,5-Trimethylbenzene	2005	N/A	N/A	<0.0005
m-Xylene	2017			
	N/A	N/A	<0.0003	
o-Xylene	2017	N/A	N/A	<0.0002
p-Xylene	2017	N/A	N/A	<0.0005

Primary, Health-Related Standards

Parameter	Year	MCLG	MCL	St. Marys
Synthetic Organic Contaminants (mg/L)				
Alachlor	2017	0	0.002	<0.0001
Aldicarb (proposed)	1994	0.001	0.003	<0.005
Aldicarb Sulfone (proposed)	1994	0.001	0.002	<0.005
Aldicarb Sulfoxide (proposed)	1994	0.001	0.004	<0.005
Aldrin	1994	N/A	N/A	<0.0001
Atrazine	2017	0.003	0.003	<0.000072
Benzo-a-pyrenes	1997	0	0.0002	<0.00002
Butachlor	1994	N/A	N/A	<0.01
Carbaryl	1997	N/A	N/A	<0.01
Carbofuran	1997	0.04	0.04	<0.004
Chlordane	1994	0	0.002	<0.0004
2,4-D	1997	0.07	0.07	<0.007
Dalapon	1994	0.2	0.2	<0.02
Di(2-ethylhexyl)adipate	1997	0.4	0.4	<0.04
Di(2-ethylhexyl)phthalate	1997	0	0.006	<0.0006
Dibromochloropropane(DBCP)	N/A	0	0.0002	Waivered
Dicamba	1997	N/A	N/A	<0.01
Dieldrin	1994	N/A	N/A	<0.0001
Dinaseb	1994	0.007	0.007	<0.001
Dioxin (2,3,7,8-TCDD)	N/A	0	3x10-8	Waivered
Diquat	1997	0.02	0.02	<0.002
Endothall	1997	0.1	0.1	<0.01
Endrin	1994	0.002	0.002	<0.0002
Ethylene Dibromide (EDB)	N/A	0	0.00005	Waivered
Glyphosate	1997	0.7	0.7	<0.07
Heptachlor	1994	0	0.0004	<0.0001
Heptachlor Epoxide	1994	0	0.0002	<0.00005
Hexachlorobenzene	1994	0	0.001	<0.00025
Hexachlorocyclopentadiene	1994	0.05	0.05	<0.005
3-Hydroxycarbofuran	1997	N/A	N/A	<0.01
Lasso	2017	N/A	N/A	<0.001
Lindane	1997	0.0002	0.0002	<0.00002
Methomyl	1997	N/A	N/A	<0.05
Methoxychlor	1997	0.04	0.04	<0.004
Metolachlor	1999	N/A	N/A	<0.005
Metribuzin	1999	N/A	N/A	<0.002
Oxamyl (Vydate)	1997	0.2	0.2	<0.02
Pentachlorophenol	1997	0	0.001	<0.0001
Picloram	1997	0.5	0.5	<0.05
Polychlorinated Biphenols (PCBs)	1997	0	0.0005	<0.0001
Propachlor	1997	N/A	N/A	<0.00005
Simazine	2017	0.004	0.004	<0.000052
Toxaphene	1994	0	0.003	<0.001
2,4,5-TP Silvex	1994	0.05	0.05	<0.005
Radiologicals (pCi/L)				
Gross Alpha	2017	0	15	<3.00
Radium –225	2003	N/A	N/A	<1
Radium – 228	2017	0	5	<1.00
Microbiologicals (Presence/Absence)				
Total Coliform Bacteria	3/Week	0	Absent	Absent

Secondary, Aesthetic Standards (mg/l)

Parameter	Year	SMCL	St. Marys
Aluminum	1996	0.05 - 0.2	<0.06
Chloride	1996	250	22.0
Color (color units)	1996	15	0
Corrosivity	1999	Non-Corrosive	Non-Corrosive
Fluoride	2017	2.0	0.371
Foaming Agents	1996	0.5	0.10
Iron	1996	0.3	<0.02
Manganese	1996	0.05	<0.01
Odor (threshold odor number)	1996	3	7
pH (standard pH units)	2017	7.0 - 10.5	8.8 (2017 Ave)
Silica	1996	N/A	3.70
Silver	1996	0.1	<0.0002
Sodium	1996	N/A	69.4
Sulfate	1995	250	190
Total Dissolved Solids (TDS)	1996	500	371
Zinc	1996	5	<0.03

Additional Parameters Analyzed - 2018 Ave (mg/L)

Alkalinity, phenol	4
Alkalinity, total	46
Chlorine Residual, combined *	1.9
Chlorine Residual, free *	0.12
Chlorine Residual, total	2.0
Hardness, calcium	103
Hardness, magnesium	11.9
Hardness, noncarbonate	106
Hardness, total	152
pH	8.9

* Ohio EPA requires a minimum 0.2 free or 1.0 combined chlorine residual.