City of St. Marys Drinking Water Quality - 2006 Complete Contaminant Monitoring List

Drinking water quality is regulated by the Safe Drinking Water Act and the Environmental Protection Agency (EPA). In Ohio, drinking water standards are set in two categories - 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	2005	0.006	0.006	<0.003
Arsenic	2005	N/A	0.05	<0.003
Asbestos (mf/l > 10 um)	1993	7	7	<0.2
Barium	2005	2	2	<0.01
Beryllium	2005	0	0.004	<0.0005
Cadmium	2005	0.005	0.005	<0.0005
Chromium	2005	0.1	0.1	<0.01
Cyanide	2005	0.2	0.2	<0.005
Fluoride	2005	4.0	4.0	0.42
Mercury	2005	0.002	0.002	<0.0002
Nickel	2005	0.1	0.1	<0.01
Nitrate as Nitrogen	2006	10.0	10.0	<0.10
Nitrate + Nitrite as Nitrogen	2006	10.0	10.0	<0.10
Nitrite as Nitrogen	2006	N/A	1.0	<0.10
Selenium	2005	0.05	0.05	0.0030
Thallium	2005	0.0005	0.002	<0.001
Copper (Action Level, not MCL)	2005	1.3	1.3	0.049
Lead (Action Level, not MCL)	2005	0	0.015	<0.002
Disinfection Byproducts (mg/L)				
Disinfectants, Total Chlorine	2006	Yearly Average	4.0	2.1
Haloacetic Acids (sum of HAA5 below)	2006	N/A	0.06	<0.006
- Dibromoacetic Acid	2006	N/A	N/A	<0.001
- Dichlororacetic Acid	2006	N/A	N/A	0.0015
- Monobromoacetic Acid	2006	N/A	N/A	<0.001
- Monochloroacetic Acid	2006	N/A	N/A	<0.002
- Trichloroacetic Acid	2006	N/A	N/A	<0.001
Trihalomethanes(sum of 4 THM below)	2006	N/A	0.08	<0.002
- Bromodichloromethane (1 of 4 THM)	2006	0	N/A	<0.0005
- Bromoform (1 of 4 THM)	2006	0	N/A	<0.0005
- Chloroform (1 of 4 THM)	2006	0	N/A	0.0006
- Dibromochloromethane (1 of 4 THM)	2006	0.06	N/A	<0.0005
Volatile Organic Contaminants (mg/L)				
Benzene	2005	0	0.005	<0.0005
Carbon Tetrachloride	2005	0	0.005	<0.0005
o-Dichlorobenzene	2005	0.6	0.6	<0.0005
p-Dichlorobenzene	2005	0.075	0.075	<0.0005
1,2-Dichloroethane	2005	0	0.005	<0.0005
1,1-Dichloroethylene	2005	0.007	0.007	<0.0005
cis-1,2-Dichloroethylene	2005	0.07	0.07	<0.0005
trans,1,2-Dichloroethylene	2005	0.1	0.1	<0.0005
Dichloromethane	2005	0	0.005	<0.0005
1,2-Dichloropropane	2005	0	0.005	<0.0005
Ethylbenzene	2005	0.7	0.7	<0.0005
Monochlorobenzene	2005	0.1	0.1	<0.0005
Styrene	2005	0.1	0.1	<0.0005
Tetrachloroethylene	2005	0	0.005	<0.0005
Toluene	2005	1	1	<0.0005
1,2,4-Trichlorobenzene	2005	0.07	0.07	<0.0005
1,1,1-Trichloroethane	2005	0.2	0.2	<0.0005
1,1,2-Trichloroethane	2005	0.003	0.005	<0.0005
Trichloroethylene	2005	0	0.005	<0.0005
Vinyl Chloride	2005	0	0.002	<0.0005
Xylenes (total)	2005	10	10	<0.0005
Bromobenzene	2005	N/A	N/A	<0.0005
Bromochloromethane	2005	N/A	N/A	<0.0005
Bromomethane	2005	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	2005	N/A	N/A	<0.0005
m-Dichlorobenzene	2005	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-Isopropyltoluene2005	N/A	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	1999	N/A	N/A	<0.0005
o-Xylene	1999	N/A	N/A	<0.0005
p-Xylene	1999	N/A	N/A	<0.0005
Synthetic Organic Contaminants (mg/L)				
Alachlor	2005	0	0.002	<0.0002
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	2005	0.003	0.003	<0.0003
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
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	2005	0.004	0.004	<0.0004
Toxaphene	1994	0	0.003	<0.001
2,4,5-TP Silvex	1994	0.05	0.05	<0.005
Radiologicals (pCi/L)				
Gross Alpha	2002	0	15	<3.0
Radium –225	2003	N/A	N/A	<1
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	2005	2.0	0.42
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)	2006	7.0 - 10.5	8.8 (2006 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 - 2006 Ave (mg/L)

Alkalinity, phenol	5
Alkalinity, total	49
Chlorine Residual, combined *	2.1
Chlorine Residual, free *	0.10
Chlorine Residual, total	2.2
Hardness, calcium	109
Hardness, magnesium	11
Hardness, noncarbonate	106
Hardness, total	155

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