

Milwaukee Water Works

Safe, Abundant Drinking Water.

ANNUAL WATER QUALITY REPORT 2007

Lake Michigan water - Source of Milwaukee Drinking Water

Milwaukee Water Works fully complies with all Federal and State drinking water quality regulations.

	MAXIMUM (mg/L)	MINIMUM (mg/L)	MEDIAN (mg/L)
Clarity			
Turbidity , NTU	63.4	0.11	1.29
Microbiological			
Coliform, Total, Presence in 100mL	6131	<1	8
Cryptosporidium parvum, oocysts/1L*	<0.140	<0.013	<0.020
Giardia lamblia, cysts/1L**	0.056	<0.013	<0.020
Heterotrophic Plate Count, cfu/1mL	3.3	<1.02	<1.02
Viruses (entero and reo)/100L			
Chemical & Physical Parameters			
Alkalinity, as CaCO ₃	111	101	106
Carbon dioxide, free, calc.	2.12	0.63	1.08
Conductivity, uS/cm	351	276	294
Hardness, Total, as CaCO ₃	145	129	135
Hardness, Calcium, as CaCO ₃	106	87	91
Hardness, Magnesium, as CaCO ₃	50	31	43
Odor (Threshold Odor Number)	3	1	1
pH	8.57	7.40	8.20
Saturation Index	0.62	-0.14	0.18
Specific UV absorbance, mg/m-L, calc.	1.4	0.5	1.2
Temperature, degrees Celsius	19.9	-0.4	6.2
Total Dissolved Solids (TDS)	203	160	171
Total Solids	200	160	170
Total Suspended Solids	<10	<10	<10
Total Organic Carbon	4.7	1.4	1.7
UV-254 (cm-1)	0.028	0.015	0.019
Inorganic Chemicals			
Aluminum	0.089	<0.003	<0.003
Ammonia, as Nitrogen	<0.1	<0.1	<0.1
Antimony	0.0013	<0.0010	<0.0010
Arsenic	<0.0020	<0.0020	<0.0020
Barium	0.021	0.020	0.021
Beryllium	<0.0003	<0.0003	<0.0003
Boron	0.068	0.021	0.023
Bromate	<0.001	<0.001	<0.001
Bromide	0.038	<0.005	0.030

Cadmium	<0.0010	<0.0010	<0.0010
Calcium	37	35	36
Cerium	<0.0010	<0.0010	<0.0010
Cesium	<0.0010	<0.0010	<0.0010
Chlorate	0.031	<0.015	<0.015
Chloride	25.9	10.2	12.0
Chlorite	<0.005	<0.005	<0.005
Chromium	0.0120	0.0027	0.0050
Cobalt	<0.0010	<0.0010	<0.0010
Copper	0.031	<0.002	0.007
Cyanide	<0.020	<0.020	<0.020
Dysprosium	<0.0010	<0.0010	<0.0010
Erbium	<0.0010	<0.0010	<0.0010
Europium	<0.0010	<0.0010	<0.0010
Fluoride	0.15	0.09	0.11
Gadolinium	<0.0010	<0.0010	<0.0010
Gallium	<0.0010	<0.0010	<0.0010
Germanium	<0.0010	<0.0010	<0.0010
Gold	<0.0010	<0.0010	<0.0010
Hafnium	<0.0010	<0.0010	<0.0010
Holmium	<0.0010	<0.0010	<0.0010
Iridium	<0.0010	<0.0010	<0.0010
Iron	0.060	<0.003	<0.003
Lanthanum	<0.0010	<0.0010	<0.0010
Lead	<0.0020	<0.0020	<0.0020
Lithium	0.0031	0.0018	0.0021
Lutetium	0.0023	<0.0020	0.0023
Magnesium	13.0	12.0	12.5
Manganese	0.0022	<0.0005	<0.0005
Mercury	<0.0001	<0.0001	<0.0001
Molybdenum	<0.0020	<0.0020	<0.0020
Neodymium	<0.0010	<0.0010	<0.0010
Nickel	0.0057	0.0026	0.0034
Niobium	<0.0010	<0.0010	<0.0010
Nitrate, as Nitrogen	0.380	0.220	0.315
Nitrate and Nitrite, Total, as Nitrogen	0.380	0.220	0.315
Nitrite, as Nitrogen	<0.010	<0.010	<0.010
Nitrogen, Kjeldahl	<0.500	<0.500	<0.500
Osmium	<0.001	<0.001	<0.001
Palladium	0.0062	0.0059	0.0059
Phosphate, Ortho	<0.050	<0.050	<0.050
Phosphorous	<0.050	<0.050	<0.050
Platinum	<0.0010	<0.0010	<0.0010
Potassium	1.5	1.0	1.3
Praseodymium	<0.0010	<0.0010	<0.0010
Protactinium	<0.0010	<0.0010	<0.0010
Rhenium	<0.0010	<0.0010	<0.0010
Rhodium	<0.0010	<0.0010	<0.0010
Rubidium	0.0013	<0.0010	0.0011
Ruthenium	<0.0010	<0.0010	<0.0010
Samarium	<0.0010	<0.0010	<0.0010
Selenium	<0.0020	<0.0020	<0.0020
Silicon	2.50	1.50	2.45
Silver	<0.0004	<0.0004	<0.0004
Sodium	13.95	4.46	6.35
Strontium	0.130	0.110	0.120
Sulfate	22.0	21.0	21.0
Tantalum	<0.001	<0.001	<0.001
Tellurium	<0.001	<0.001	<0.001
Thallium	<0.0004	<0.0004	<0.0004

Thorium	<0.200	<0.200	<0.200
Thulium	<0.0010	<0.0010	<0.0010
Tin	<0.500	<0.500	<0.500
Titanium	0.0092	<0.0010	<0.0012
Tungsten	<0.0010	<0.0010	<0.0010
Uranium	<0.0010	<0.0010	<0.0010
Vanadium	0.0035	<0.0010	0.0017
Ytterbium	<0.0010	<0.0010	<0.0010
Zinc	<0.0050	<0.0050	<0.0050
Zirconium	<0.0010	<0.0010	<0.0010

Organic Chemicals

Acenaphthene	<0.0001	<0.0001	<0.0001
Acenaphthylene	<0.0001	<0.0001	<0.0001
Acetaldehyde	0.0080	<0.0055	<0.0055
Acetochlor	<0.0001	<0.0001	<0.0001
Acetone	<0.0050	<0.0050	<0.0050
Acrylonitrile	<0.0010	<0.0010	<0.0010
Adipate, di(2-ethylhexyl)	<0.0006	<0.0006	<0.0006
Alachlor	<0.0001	<0.0001	<0.0001
Aldehydes, Total	0.0080	<0.0055	<0.0055
Aldicarb (Temik)	<0.0005	<0.0005	<0.0005
Aldicarb sulfone	<0.0007	<0.0007	<0.0007
Aldicarb sulfoxide	<0.0005	<0.0005	<0.0005
Aldrin	<0.0001	<0.0001	<0.0001
Allyl chloride	<0.0050	<0.0050	<0.0050
tert-Amyl Methyl ether	<0.0030	<0.0030	<0.0030
Ametryn	<0.0001	<0.0001	<0.0001
Anilazine	<0.0010	<0.0010	<0.0010
Anthracene	<0.0001	<0.0001	<0.0001
Aspon	<0.0001	<0.0001	<0.0001
Atraton	<0.0001	<0.0001	<0.0001
Atrazine	<0.0001	<0.0001	<0.0001
Azinphos-ethyl	<0.0005	<0.0005	<0.0005
Azinphos-methyl	<0.0005	<0.0005	<0.0005
Bendiocarb	<0.0005	<0.0005	<0.0005
Benfluralin	<0.0001	<0.0001	<0.0001
Benzaldehyde	<0.0055	<0.0055	<0.0055
Benzene	<0.0005	<0.0005	<0.0005
alpha-Benzene hexachloride	<0.0001	<0.0001	<0.0001
beta-Benzene hexachloride	<0.0001	<0.0001	<0.0001
delta-Benzene hexachloride	<0.0001	<0.0001	<0.0001
gamma-Benzene hexachloride (Lindane)	<0.00002	<0.00002	<0.00002
Benzo(a)anthracene	<0.0001	<0.0001	<0.0001
Benzo(b)fluoranthene	<0.0001	<0.0001	<0.0001
Benzo(k)fluoranthene	<0.0001	<0.0001	<0.0001
Benzo(g, h, l)perylene	<0.0001	<0.0001	<0.0001
Benzo(a)pyrene	<0.00002	<0.00002	<0.00002
Bolstar	<0.0001	<0.0001	<0.0001
Bromacil	<0.0001	<0.0001	<0.0001
Bromobenzene	<0.0005	<0.0005	<0.0005
Bromochloromethane	<0.0005	<0.0005	<0.0005
Bromodichloromethane	0.0014	<0.0005	<0.0005
Bromoform	<0.0005	<0.0005	<0.0005
Bromomethane	<0.0005	<0.0005	<0.0005
Butachlor	<0.0001	<0.0001	<0.0001
2-Butanone (MEK)	<0.0050	<0.0050	<0.0050
tert-Butyl alcohol	<0.0020	<0.0020	<0.0020
n-Butylacrylate	<0.0010	<0.0010	<0.0010

Butylate	<0.0001	<0.0001	<0.0001
n-Butylbenzene	<0.0005	<0.0005	<0.0005
sec-Butylbenzene	<0.0005	<0.0005	<0.0005
tert-Butylbenzene	<0.0005	<0.0005	<0.0005
Butylbenzylphthalate	<0.0010	<0.0010	<0.0010
Butyraldehyde (Butanal)	0.0064	<0.0055	<0.0055
Carbaryl	<0.0005	<0.0005	<0.0005
Carbofuran	<0.0009	<0.0009	<0.0009
Carbon disulfide	<0.0050	<0.0050	<0.0050
Carbon Tetrachloride	<0.0005	<0.0005	<0.0005
Carbophenothion	<0.0005	<0.0005	<0.0005
Carboxin	<0.0001	<0.0001	<0.0001
Chlordane	<0.0001	<0.0001	<0.0001
Chlordane, alpha	<0.0001	<0.0001	<0.0001
Chlordane, gamma	<0.0001	<0.0001	<0.0001
Chlorfenvinphos	<0.0050	<0.0050	<0.0050
Chloroacetonitrile	<0.0050	<0.0050	<0.0050
Chlorobenzene	<0.0005	<0.0005	<0.0005
Chlorobenzilate	<0.0001	<0.0001	<0.0001
2-Chlorobiphenyl	<0.0001	<0.0001	<0.0001
1-Chlorobutane	<0.0050	<0.0050	<0.0050
Chloroethane	<0.0005	<0.0005	<0.0005
Chloroform	0.0019	<0.0005	<0.0005
Chloromethane	<0.0005	<0.0005	<0.0005
Chloroneb	<0.0001	<0.0001	<0.0001
Chloroprene	<0.0050	<0.0050	<0.0050
Chloropropylate	<0.0001	<0.0001	<0.0001
Chlorothalonil	<0.0001	<0.0001	<0.0001
o-Chlorotoluene	<0.0005	<0.0005	<0.0005
p-Chlorotoluene	<0.0005	<0.0005	<0.0005
Chlorpropham	<0.0001	<0.0001	<0.0001
Chlorpyrifos	<0.0001	<0.0001	<0.0001
Chlorpyrifos methyl	<0.0005	<0.0005	<0.0005
Chrysene	<0.0001	<0.0001	<0.0001
Clomazone	<0.0001	<0.0001	<0.0001
Clopyralid	<0.010	<0.010	<0.010
Coumaphos	<0.0001	<0.0001	<0.0001
Crotonaldehyde	<0.0055	<0.0055	<0.0055
Crotoxyphos	<0.0005	<0.0005	<0.0005
Cyanazine	<0.0001	<0.0001	<0.0001
Cycloate	<0.0001	<0.0001	<0.0001
Cyclohexanone	<0.0055	<0.0055	<0.0055
2,4-D	<0.0001	<0.0001	<0.0001
DCPA	<0.0001	<0.0001	<0.0001
4,4'-DDD	<0.0001	<0.0001	<0.0001
4,4'-DDE	<0.0001	<0.0001	<0.0001
4,4'-DDT	<0.0001	<0.0001	<0.0001
Dalapon	<0.0010	<0.0010	<0.0010
Decanal	<0.0055	<0.0055	<0.0055
Deethylatrazine	<0.0010	<0.0010	<0.0010
Deisopropylatrazine	<0.0010	<0.0010	<0.0010
Demeton O	<0.0005	<0.0005	<0.0005
Demeton S	<0.0005	<0.0005	<0.0005
Desethylatrazine	<0.0010	<0.0010	<0.0010
Desisopropylatrazine	<0.0010	<0.0010	<0.0010

Diazinon	<0.0001	<0.0001	<0.0001
Dibenzo(a,h)anthracene	<0.0001	<0.0001	<0.0001
1,2-Dibromoethane (EDB)	<0.0002	<0.0002	<0.0002
Dibromochloromethane	0.0007	<0.0005	<0.0005
Dibromomethane	<0.0005	<0.0005	<0.0005
1-2 Dibromo 3 chloropropane (DBCP)	<0.0002	<0.0002	<0.0002
Di-n-butylphthalate	<0.0020	<0.0020	<0.0020
Dicamba	<0.0001	<0.0001	<0.0001
Dichlobenil	<0.0001	<0.0001	<0.0001
Dichlofenthion	<0.0001	<0.0001	<0.0001
Dichloran	<0.0005	<0.0005	<0.0005
2,3-Dichlorobiphenyl	<0.0001	<0.0001	<0.0001
Dichlorvos	<0.0001	<0.0001	<0.0001
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005
trans-1,2-Dichloro-2-butylene	<0.0050	<0.0050	<0.0050
Dichlorodifluoromethane	<0.0005	<0.0005	<0.0005
1,1-Dichloroethane	<0.0005	<0.0005	<0.0005
1,2-Dichloroethane	<0.0005	<0.0005	<0.0005
Di (2-chloroethyl) ether	<0.0020	<0.0020	<0.0020
1,1-Dichloroethylene	<0.0005	<0.0005	<0.0005
1,2-Dichloroethylene, cis	<0.0005	<0.0005	<0.0005
1,2-Dichloroethylene, trans	<0.0005	<0.0005	<0.0005
Dichloromethane (methylene chloride)	<0.0005	<0.0005	<0.0005
1,2-Dichloropropane	<0.0005	<0.0005	<0.0005
1,3-Dichloropropane	<0.0005	<0.0005	<0.0005
2,2-Dichloropropane	<0.0005	<0.0005	<0.0005
1,1-Dichloropropanone	<0.0050	<0.0050	<0.0050
1,1-Dichloropropene	<0.0005	<0.0005	<0.0005
1,3-Dichloropropene	<0.0005	<0.0005	<0.0005
1,1-Dichloropropylene	<0.0005	<0.0005	<0.0005
cis 1,3-Dichloropropylene	<0.0005	<0.0005	<0.0005
trans 1,3-Dichloropropylene	<0.0005	<0.0005	<0.0005
Dicrotophos	<0.0005	<0.0005	<0.0005
Dieldrin	<0.0001	<0.0001	<0.0001
Di (2-ethylhexyl) adipate	<0.0006	<0.0006	<0.0006
Di (2-ethylhexyl) phthalate	<0.0006	<0.0006	<0.0006
Diethylether (2005)	<0.002	<0.002	<0.002
Diethylphthalate	<0.0010	<0.0010	<0.0010
Dimethoate	<0.0005	<0.0005	<0.0005
Dimethylphthalate	<0.0010	<0.0010	<0.0010
2,4-Dinitrotoluene	<0.0005	<0.0005	<0.0005
2,6-Dinitrotoluene	<0.0005	<0.0005	<0.0005
Di-n-octylphthalate	<0.0020	<0.0020	<0.0020
Dinoseb	<0.0001	<0.0001	<0.0001
1,4-Dioxane	<0.0050	<0.0050	<0.0050
Dioxathion	<0.0005	<0.0005	<0.0005
Dioxin (2,3,7,8-TCDD)	<0.0000000050	<0.0000000050	<0.0000000050
Diphenamid	<0.0001	<0.0001	<0.0001
Diquat	<0.0004	<0.0004	<0.0004
Disulfoton	<0.0001	<0.0001	<0.0001

Disulfoton sulfone	<0.0001	<0.0001	<0.0001
Disulfoton sulfoxide	<0.010	<0.010	<0.010
Dyfonate (2002)	<0.0001	<0.0001	<0.0001
Endosulfan I	<0.0001	<0.0001	<0.0001
Endosulfan II	<0.0001	<0.0001	<0.0001
Endosulfan sulfate	<0.0001	<0.0001	<0.0001
Endothall	<0.0090	<0.0090	<0.0090
Endrin	<0.00001	<0.00001	<0.00001
Endrin aldehyde	<0.0005	<0.0005	<0.0005
Epichlorohydrin	<0.0010	<0.0010	<0.0010
EPN	<0.0005	<0.0005	<0.0005
EPTC	<0.0001	<0.0001	<0.0001
Erucylamide	<0.0050	<0.0050	<0.0050
Esfenvalerate	<0.0005	<0.0005	<0.0005
Ethalfuralin	<0.0001	<0.0001	<0.0001
Ethion	<0.0050	<0.0050	<0.0050
Ethofumesate	<0.0005	<0.0005	<0.0005
Ethoprop	<0.0001	<0.0001	<0.0001
Ethylacrylate	<0.0010	<0.0010	<0.0010
Ethylbenzene	<0.0050	<0.0050	<0.0050
Ethylene dibromide (EDB)	<0.00001	<0.00001	<0.00001
Ethyl ether	<0.0020	<0.0020	<0.0020
Ethyl methacrylate	<0.0010	<0.0010	<0.0010
Ethyl tert Butylether	<0.0030	<0.0030	<0.0030
Etridiazole	<0.0001	<0.0001	<0.0001
Famphur	<0.0001	<0.0001	<0.0001
Fenamiphos	<0.0001	<0.0001	<0.0001
Fenarimol	<0.0010	<0.0010	<0.0010
Fenitrothion	<0.0005	<0.0005	<0.0005
Fenoxypop-ethyl	<0.0010	<0.0010	<0.0010
Fensulfothion	<0.0005	<0.0005	<0.0005
Fenthion	<0.0001	<0.0001	<0.0001
Fluazifop-butyl	<0.0001	<0.0001	<0.0001
Fluchloralin	<0.0001	<0.0001	<0.0001
Fluometuron	<0.0005	<0.0005	<0.0005
Fluoranthene	<0.0001	<0.0001	<0.0001
Fluorene	<0.0001	<0.0001	<0.0001
Fluridone	<0.0010	<0.0010	<0.0010
Fonofos	<0.0001	<0.0001	<0.0001
Formaldehyde	0.0071	<0.0055	0.0061
Glyoxal	<0.0055	<0.0055	<0.0055
Glyphosate (Round-up)	<0.0060	<0.0060	<0.0060
Heptachlor	<0.00004	<0.00004	<0.00004
Heptachlor epoxide	<0.00002	<0.00002	<0.00002
2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.0005	<0.0005	<0.0005
Heptanal	<0.0055	<0.0055	<0.0055
Hexachlorobenzene	<0.0001	<0.0001	<0.0001
2,2',4,4',5,6'-Hexachlorobiphenyl	<0.0001	<0.0001	<0.0001
Hexachlorobutadiene	<0.0005	<0.0005	<0.0005
Hexachloroethane	<0.0020	<0.0020	<0.0020
Hexachlorocyclopentadiene	<0.0001	<0.0001	<0.0001
Hexanal	<0.0055	<0.0055	<0.0055

2-Hexanone	<0.0050	<0.0050	<0.0050
Hexazione	<0.0001	<0.0001	<0.0001
3-Hydroxycarbofuran	<0.0005	<0.0005	<0.0005
Indeno(1,2,3-cd)pyrene	<0.0001	<0.0001	<0.0001
Iprodione	<0.0005	<0.0005	<0.0005
Isufenphos	<0.0005	<0.0005	<0.0005
Isophorone	<0.0001	<0.0001	<0.0001
Isopropylbenzene	<0.0005	<0.0005	<0.0005
4-Isopropyltoluene (p-) (2006)	<0.0005	<0.0005	<0.0005
Leptophos	<0.0005	<0.0005	<0.0005
Lindane	<0.00002	<0.00002	<0.00002
Malathion	<0.0001	<0.0001	<0.0001
Merphos (2004)	<0.002	<0.002	<0.002
Metalazyl	<0.0005	<0.0005	<0.0005
Methacrylonitrile	<0.0050	<0.0050	<0.0050
Methomyl	<0.0005	<0.0005	<0.0005
Methoxychlor	<0.0001	<0.0001	<0.0001
Methylacrylate	<0.0010	<0.0010	<0.0010
Methyl iodide (Iodomethane)	<0.0020	<0.0020	<0.0020
Methylmethacrylate	<0.0010	<0.0010	<0.0010
1-Methyl naphthalene	<0.0001	<0.0001	<0.0001
2-Methyl naphthalene	<0.0001	<0.0001	<0.0001
Methyl paraoxon	<0.0005	<0.0005	<0.0005
Methyl parathion	<0.0005	<0.0005	<0.0005
4-Methyl-2-pentanone (MIBK)	<0.0020	<0.0020	<0.0020
2-Methyl-2-propanol (2006)	<0.0020	<0.0020	<0.0020
Methyl-t-butyl ether (MBTE)	<0.0050	<0.0050	<0.0050
Metolachlor (Dual)	<0.0001	<0.0001	<0.0001
Metribuzin (Sencor)	<0.0001	<0.0001	<0.0001
Metsulfuron methyl	<0.010	<0.010	<0.010
Mevinphos	<0.0001	<0.0001	<0.0001
MGK-264 isomer a	<0.0001	<0.0001	<0.0001
MGK-264 isomer b	<0.0001	<0.0001	<0.0001
MGK-326	<0.0001	<0.0001	<0.0001
Mirex	<0.0005	<0.0005	<0.0005
Molinate	<0.0001	<0.0001	<0.0001
Monocrotophos	<0.0005	<0.0005	<0.0005
Naled	<0.0005	<0.0005	<0.0005
Naphthalene	<0.0005	<0.0005	<0.0005
Napropamide	<0.0001	<0.0001	<0.0001
Nitrobenzene	<0.0050	<0.0050	<0.0050
2-Nitropropane	<0.0020	<0.0020	<0.0020
Norflurazon	<0.0010	<0.0010	<0.0010
cis-Nonachlor	<0.0001	<0.0001	<0.0001
trans-Nonachlor	<0.0001	<0.0001	<0.0001
Nonanal	<0.0055	<0.0055	<0.0055
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.0005	<0.0005	<0.0005
Octanal	<0.0055	<0.0055	<0.0055
Oryzalin	<0.010	<0.010	<0.010
Oxadiazon	<0.0001	<0.0001	<0.0001
Oxamyl (Vydate)	<0.0010	<0.0010	<0.0010
Oxychlorane	<0.0001	<0.0001	<0.0001

Oxyfluorfen	<0.0005	<0.0005	<0.0005
Parathion	<0.0005	<0.0005	<0.0005
Pebulate	<0.0001	<0.0001	<0.0001
Pendimethalin	<0.0001	<0.0001	<0.0001
Pentachlorobenzene	<0.0005	<0.0005	<0.0005
Pentachloronitrobenzene	<0.0005	<0.0005	<0.0005
2,2',3',4,6-Pentachlorobiphenyl	<0.0001	<0.0001	<0.0001
Pentachloroethane	<0.0020	<0.0020	<0.0020
Pentachlorophenol	<0.00004	<0.00004	<0.00004
PAHs(benzo(a)-pyrene)	<0.00002	<0.00002	<0.00002
Perchlorate	0.00012	0.00010	0.00012
cis-Permethrin	<0.0001	<0.0001	<0.0001
trans-Permethrin	<0.0001	<0.0001	<0.0001
Phthalate, (di(2-ethylhexyl)	<0.0006	<0.0006	<0.0006
Phenanthrene	<0.0001	<0.0001	<0.0001
Phorate	<0.0001	<0.0001	<0.0001
Phosmet	<0.0005	<0.0005	<0.0005
E-Phosphamidon	<0.0005	<0.0005	<0.0005
Z-Phosphamidon	<0.0005	<0.0005	<0.0005
Picloram (Tordon)	<0.0001	<0.0001	<0.0001
Polychlorinated Byphenyls (PCB's), Total***			
Aroclor 1016	<0.00008	<0.00008	<0.00008
Aroclor 1221	<0.0020	<0.0020	<0.0020
Aroclor 1232	<0.0005	<0.0005	<0.0005
Aroclor 1242	<0.0003	<0.0003	<0.0003
Aroclor 1248	<0.0001	<0.0001	<0.0001
Aroclor 1254	<0.0001	<0.0001	<0.0001
Aroclor 1260	<0.0002	<0.0002	<0.0002
Profluralin	<0.0001	<0.0001	<0.0001
Prometon	<0.0001	<0.0001	<0.0001
Prometryn	<0.0001	<0.0001	<0.0001
Pronamide	<0.0001	<0.0001	<0.0001
Propachlor	<0.0001	<0.0001	<0.0001
Propanil	<0.0005	<0.0005	<0.0005
Propazine	<0.0001	<0.0001	<0.0001
Propiconazole isomer a	<0.0050	<0.0050	<0.0050
Propiconazole isomer b	<0.0050	<0.0050	<0.0050
Propionaldehyde (Propanal)	0.0071	<0.0055	<0.0055
Propionitrile	<0.0050	<0.0050	<0.0050
n-Propylbenzene	<0.0005	<0.0005	<0.0005
Prothiofos	<0.0005	<0.0005	<0.0005
Pyrene	<0.0001	<0.0001	<0.0001
Pyruvaldehyde (Methylglyoxal)	<0.0055	<0.0055	<0.0055
Simazine	<0.00007	<0.00007	<0.00007
Simetryn	<0.0001	<0.0001	<0.0001
Stirofos	<0.0001	<0.0001	<0.0001
Styrene	<0.0005	<0.0005	<0.0005
Sulfotep	<0.0005	<0.0005	<0.0005
Tebuthiuron	<0.010	<0.010	<0.010
TEPP	<0.0010	<0.0010	<0.0010
Terbacil	<0.0001	<0.0001	<0.0001
Terbufos	<0.0005	<0.0005	<0.0005

Terbutryn	<0.0001	<0.0001	<0.0001
1,2,4,5-Tetrachlorobenzene	<0.0005	<0.0005	<0.0005
2,2',4,4'-Tetrachlorobiphenyl	<0.0001	<0.0001	<0.0001
1,1,1,2-Tetrachloroethane	<0.0005	<0.0005	<0.0005
1,1,2,2-Tetrachloroethane	<0.0005	<0.0005	<0.0005
Tetrachloroethylene	<0.0005	<0.0005	<0.0005
Tetrahydrofuran	<0.0050	<0.0050	<0.0050
Thiabendazole	<0.010	<0.010	<0.010
Thiobencarb	<0.0001	<0.0001	<0.0001
Thionazin	<0.0005	<0.0005	<0.0005
Toluene	<0.0005	<0.0005	<0.0005
Toxaphene	<0.0010	<0.0010	<0.0010
2,4,5-TP (Silvex)	<0.0001	<0.0001	<0.0001
Triademefon	<0.0005	<0.0005	<0.0005
Tribufos (DEF)	<0.0001	<0.0001	<0.0001
Trichlorfon(2005)	<0.010	<0.010	<0.010
1,2,3-Trichlorobenzene	<0.0005	<0.0005	<0.0005
1,2,4-Trichlorobenzene	<0.0005	<0.0005	<0.0005
2,4,5-Trichlorobiphenyl	<0.0001	<0.0001	<0.0001
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.0005
1,1,2-Trichloroethane	<0.0005	<0.0005	<0.0005
Trichloroethylene	<0.0005	<0.0005	<0.0005
Trichlorofluoromethane	<0.0005	<0.0005	<0.0005
Trichlonte	<0.0005	<0.0005	<0.0005
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.0005
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.0005	<0.0005	<0.0005
Tricyclazole	<0.0010	<0.0010	<0.0010
1,2,3-Trimethylbenzene	<0.0005	<0.0005	<0.0005
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.0005
1,3,5-Trimethylbenzene	<0.0005	<0.0005	<0.0005
Trifluralin	<0.0001	<0.0001	<0.0001
Trihalomethanes, total	0.0014	ND	ND
n-Valeraldehyde (Pentanal)	<0.0055	<0.0055	<0.0055
Vernolate	<0.0001	<0.0001	<0.0001
Vinclozolin	<0.0005	<0.0005	<0.0005
Vinyl acetate	<0.0050	<0.0050	<0.0050
Vinyl Chloride	<0.0002	<0.0002	<0.0002
Xylene, total	<0.0005	<0.0005	<0.0005

Estrogens and Other Hormones (EDCs)

Diethylstilbestrol (DES)	<0.0000005	<0.0000005	<0.0000005
17alpha-Estradiol	<0.0000005	<0.0000005	<0.0000005
17beta-Estradiol	<0.0000005	<0.0000005	<0.0000005
Estriol	<0.0000005	<0.0000005	<0.0000005
Estrone	<0.0000005	<0.0000005	<0.0000005
17alpha-Ethynl estradiol	<0.0000005	<0.0000005	<0.0000005
Progesterone	<0.0000001	<0.0000001	<0.0000001
cis-Testosterone	<0.0000001	<0.0000001	<0.0000001
trans-Testosterone	<0.0000001	<0.0000001	<0.0000001

Explosives and Related Compounds (2006)

2-Amino-4,6-dinitrotoluene	<0.0005	<0.0005	<0.0005
4-Amino-2,6-dinitrotoluene	<0.0005	<0.0005	<0.0005
3,5-Dinitroaniline	<0.0005	<0.0005	<0.0005

1,3-Dinitrobenzene	<0.0005	<0.0005	<0.0005
2,4-Dinitrotoluene	<0.0005	<0.0005	<0.0005
2,6-Dinitrotoluene	<0.0005	<0.0005	<0.0005
Nitrobenzene	<0.0005	<0.0005	<0.0005
2-Nitrotoluene	<0.0005	<0.0005	<0.0005
3-Nitrotoluene	<0.0005	<0.0005	<0.0005
4-Nitrotoluene	<0.0005	<0.0005	<0.0005
RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	<0.0005	<0.0005	<0.0005
Tetryl (2,4,6-Trinitrophenylmethylnitramine)	<0.0010	<0.0010	<0.0010
TNT (2,4,6 Trinitrotoluene)	<0.0005	<0.0005	<0.0005
1,3,5-Trinitrobenzene	<0.0005	<0.0005	<0.0005

Flame Retardants and Selected Pesticides**** (2006)

Atrazine			
Bifenthrin	<0.00025	<0.00025	<0.00025
Bromacil	<0.00025	<0.00025	<0.00025
Chlorpyrifos	<0.00025	<0.00025	<0.00025
Dimethoate	<0.00025	<0.00025	<0.00025
EsbioI	<0.00025	<0.00025	<0.00025
Esfenvalerate	<0.00025	<0.00025	<0.00025
Fenvalerate	<0.00025	<0.00025	<0.00025
Hexabromobiphenyl	<0.00025	<0.00025	<0.00025
2,2',4,4',4,4'-Hexabromodiphenyl ether (BDE-153)	<0.00025	<0.00025	<0.00025
Hexazinone	<0.00025	<0.00025	<0.00025
Kepone	<0.00025	<0.00025	<0.00025
Malathion	<0.00025	<0.00025	<0.00025
Mirex	<0.00025	<0.00025	<0.00025
Nitrofen	<0.00025	<0.00025	<0.00025
Norflurazon	<0.00025	<0.00025	<0.00025
Oxychlorane	<0.00025	<0.00025	<0.00025
Parathion	<0.00025	<0.00025	<0.00025
2,2',4,4',5-Pentabromodiphenyl ether (BDE-99)	<0.00025	<0.00025	<0.00025
2,2',4,4',6-Pentabromodiphenyl ether (BDE-100)	<0.00025	<0.00025	<0.00025
Prometryn	<0.00025	<0.00025	<0.00025
Propazine	<0.00025	<0.00025	<0.00025
Terbufos-sulfone	<0.00025	<0.00025	<0.00025
2,2',4,4'-Tetrabromodiphenyl ether (BDE-47)	<0.00025	<0.00025	<0.00025
Thiobencarb	<0.00025	<0.00025	<0.00025
Vinclozolin	<0.00025	<0.00025	<0.00025

Nitrosamines

N-Nitropyrrolidine (NPYR)	<0.0000020	<0.0000020	<0.0000020
N-Nitrosodi-N-butylamine (NDBA)	<0.0000031	<0.0000031	<0.0000031
N-Nitrosodiethylamine (NDEA)	<0.0000041	<0.0000041	<0.0000041
N-Nitrosodimethylamine (NDMA)	<0.0000020	<0.0000020	<0.0000020
N-Nitrosodi-N-propylamine (NDPA)	<0.0000041	<0.0000041	<0.0000041
N-Nitrosomethylethylamine (NMEA)	<0.0000031	<0.0000031	<0.0000031
N-Nitrosopiperidine (2006)	<0.0000020	<0.0000020	<0.0000020

Phenolic Endocrine Disruptors (EDCs)

Bisphenol A	<0.0001	<0.0001	<0.0001
Nonylphenol diethoxylate, isomer mix (2006)	<0.0010	<0.0010	<0.0010
Nonylphenol monoethoxylate, isomer mix (2006)	<0.010	<0.010	<0.010

Nonylphenol, isomer mix	<0.0005	<0.0005	<0.0005
4-n-Octylphenol	<0.0005	<0.0005	<0.0005
4-tert-Octylphenol	<0.0005	<0.0005	<0.0005
Pentachlorophenol	<0.0001	<0.0001	<0.0001
Phenylphenol, Total	<0.0001	<0.0001	<0.0001
Tetrabromobisphenol A	<0.0001	<0.0001	<0.0001
2, 4, 6-Trichlorophenol	<0.0001	<0.0001	<0.0001

Pharmaceuticals & Personal Care Products

Acetaminophen	<0.000005	<0.000005	<0.000005
Amoxicillin	<0.00005	<0.00005	<0.00005
Antipyrine	<0.000001	<0.000001	<0.000001
Aspirin	<0.00005	<0.00005	<0.00005
Azithromycin	<0.000001	<0.000001	<0.000001
Bacitracin	<0.0005	<0.0005	<0.0005
Bezafibrate	<0.0000005	<0.0000005	<0.0000005
Caffeine	0.00008	<0.00005	<0.00005
Carbadox	0.00006	<0.00005	<0.00005
Carbamazepine	<0.000001	<0.000001	<0.000001
Chloramphenicol	<0.000005	<0.000005	<0.000005
Chlorotetracycline	<0.00005	<0.00005	<0.00005
Ciprofloxacin	<0.000005	<0.000005	<0.000005
Clofibric acid	<0.0000005	<0.0000005	<0.0000005
Cotinine	0.000002	<0.000001	0.000001
1, 7-Dimethylxanthine (2006)	<0.000005	<0.000005	<0.000005
DEET	<0.000005	<0.0000005	<0.0000005
Diclofenac	0.000004	<0.00005	<0.00005
Dilantin	<0.0005	<0.0005	<0.0005
Diltiazem	<0.00001	<0.00001	<0.00001
Doxycycline	<0.00005	<0.0005	<0.0005
Enrofloxacin	<0.0005	<0.0005	<0.0005
Erythromycin	<0.000001	<0.000001	<0.000001
Fluoxetine (Prozac)	<0.000001	<0.000001	<0.000001
Gemfibrozil	0.0000005	<0.0000005	<0.0000005
Ibuprofen	<0.00005	<0.00005	<0.00005
Lasalocid	<0.000001	<0.000001	<0.000001
Levothyroxine (Synthroid)	<0.00005	<0.00005	<0.00005
Lincomycin	<0.0000001	<0.0000001	<0.0000001
Monensin	<0.0000001	<0.0000001	<0.0000001
Naproxen	<0.000002	<0.000002	<0.000002
Narasin	<0.0000001	<0.0000001	<0.0000001
Nicotine	<0.000005	<0.000005	<0.000005
Oleandomycin	0.000005	<0.000001	0.000005
Oxytetracycline	<0.0005	<0.0005	<0.0005
Paraxanthine	<0.000005	<0.000005	<0.000005
Penicillin G	<0.000002	<0.000002	<0.000002
Penicillin V	<0.000002	<0.000002	<0.000002
Prednisone	<0.000005	<0.000005	<0.000005
Roxithromycin	<0.000001	<0.000001	<0.000001
Salinomycin	<0.0000001	<0.0000001	<0.0000001
Simvastatin	<0.000001	<0.000001	<0.000001
Sulfachloropyridazine	<0.000005	<0.000005	<0.000005

Sulfadiazine	<0.000005	<0.000005	<0.000005
Sulfadimethoxine	<0.0000001	<0.0000001	<0.0000001
Sulfamerazine	<0.000005	<0.000005	<0.000005
Sulfamethazine	<0.000001	<0.000001	<0.000001
Sulfamethizole	<0.000005	<0.000005	<0.000005
Sulfamethoxazole	<0.000005	<0.000005	<0.000005
Sulthiazole	<0.000005	<0.000005	<0.000005
Theobromine	<0.000005	<0.000005	<0.000005
Theophylline	<0.000005	<0.000005	<0.000005
Triclosan	<0.000005	<0.000005	<0.000005
Trimethoprim	<0.000001	<0.000001	<0.000001
Tylosin	<0.000001	<0.000001	<0.000001
Virginiamycin M1	<0.000001	<0.000001	<0.000001

D = Sample collected in distribution system

NR = Not Regulated

R = Not Regulated in raw water, only finished wa

**Cryptosporidium parvum* was detected in 0 of 52 tests.

***Giardia lamblia* was detected in 2 of 52 tests.

***PCB's are summation of Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260. None were detected.

****The list of Flame Retardants and Selected Pesticides is tested using USEPA Method 527. This chemicals are included in the Unregulated Contaminant Monitoring Rule-2.

Note for Copper and Lead: There is no detectable lead in Lake Michigan water, the source of Milwaukee's supply.

The major sources of copper and lead in drinking water in Milwaukee are service lines, building plumbing, and fixtures.

From these sources, some homes in the community have lead levels above the EPA action level of 0.015 mg/L.

Milwaukee Water Works has installed and is operating treatment facilities to reduce lead in drinking water.

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For more information, call the Milwaukee Water Works Water Quality unit, (414) 286-2585.