

**2012 Finished Water Quality Contaminant Table for Consumer Confidence Report**

The table below shows the regulated contaminants detected in Milwaukee’s drinking water during 2012. All are below levels allowed by state and federal laws. The table contains the name of each substance, the highest level allowed by regulation (Maximum Contaminant Level, or MCL), the ideal goals for public health (Maximum Contaminant Level Goal, or MCLG), the amount detected, the usual sources of such contamination, and footnotes explaining the findings and units of measurement. The presence of a substance in drinking water does not necessarily indicate the water poses a health risk. Certain quantities of some substances are essential to good health, but excessive quantities can be hazardous. A list of the hundreds of other compounds tested for but not detected in the Milwaukee water quality monitoring program can be found at [www.milwaukee.gov/water/about/WaterQuality.htm](http://www.milwaukee.gov/water/about/WaterQuality.htm).

<b>Substance</b>	<b>Ideal Goals (MCLG)</b>	<b>Highest Level Allowed (MCL)</b>	<b>Median Value</b>	<b>Highest Level Detected</b>	<b>Source(s) of Contaminant</b>
Aluminum	0.2 mg/L	NR	0.047 mg/L	0.119 mg/L	Water treatment additive; Natural deposits
Barium	2 mg/L	2 mg/L	0.02 mg/L	0.02 mg/L	Natural deposits
Bromate	10 µg/L	10 µg/L (RAA)	< 5 µg/L (RAA)	6.8 ug/L	Byproduct of drinking water disinfection
Chlorine, total	4 mg/L	4 mg/L	1.45 mg/L	1.93 mg/L	Residual of drinking water disinfection
Chromium, hexavalent	NR	NR	0.22 µg/L	0.41 µg/L	Natural deposits
Copper (2011)	1.3 mg/L	1.3 mg/L (AL)	0.034 mg/L (AL)	NR	Corrosion of household plumbing systems
Di-haloacetonitriles, total	NR	NR	1.8 ug/L	4.1 ug/L	Byproduct of drinking water disinfection
Fluoride	4 mg/L	4 mg/L	0.97 mg/L	1.35 mg/L	Water treatment additive; Natural deposits

Gross Alpha particles	Zero	15 pCi/L	2.7 pCi/L	2.8 pCi/L	Natural deposits
Gross Beta particles	Zero	50 pCi/L	5.3 pCi/L	6.0 pCi/L	Natural deposits
Haloacetic Acids, total	NA	60 µg/L	1.2 µg/L	3.8 µg/L	Byproduct of drinking water disinfection
Lead (2011)	Zero	15 µg/L (AL)	6 µg/L (AL)	NR	Corrosion of household plumbing systems
Organic Carbon, total	TT	TT	1.2 mg/L	1.4 mg/L	Natural deposits
Perchlorate	NR	NR	0.11 ug/L	0.12 ug/L	Residual of disinfection
Potassium	NR	NR	1.4 mg/L	1.6 mg/L	Natural deposits
Radium, combined(2011)	Zero	5 pCi/L	1.98 pCi/L	1.99 pCi/L	Natural deposits
Sodium	NR	NR	9.3 mg/L	17.0 mg/L	Natural deposits
Sulfate	500 mg/L	NR	26 mg/L	28 mg/L	Natural deposits
Trihalomethanes, total	NA	80 µg/L	7.3 µg/L	17.1 µg/L	Byproduct of drinking water disinfection
Total Coliform- positive samples	Zero	< 5% monthly	0.0%	< 1 %	Naturally Occurring
Turbidity	NA	<0.3 NTU 95% of the time	0.04 NTU 95% of the time	0.08 NTU 1-day max	Natural deposits
Tritium, dissolved (2011)	Zero	20,000 pCi/L	427 pCi/L	544 pCi/L	Natural deposits
Uranium, total (2011)	Zero	30 pCi/L	0.23 pCi/L	0.25 pCi/L	Natural deposits

### **Definitions**

< “less than” or not detected

**AL** Action Level; the concentration of a contaminant that when exceeded, triggers treatment or other requirement that a water system must follow. Action Levels are reported at the 90th percentile for homes at greatest risk.

**Di-haloacetonitriles** Di-chloroacetonitrile; Di-bromoacetonitrile; and bromochloroacetonitrile

**Haloacetic Acids** Mono-, di-, and tri-chloroacetic acid; mono- and di-bromoacetic acid; and bromochloroacetic acid

**Median** The middle value of the entire data set for the parameter (range from high to low)

**µg/L** microgram per liter or parts per billion

**mg/L** milligram per liter or parts per million

**NR** Not regulated

**NTU** Nephelometric Turbidity Unit - unit to measure turbidity

**pCi/L** Picocuries per liter, a measure of radioactivity. A picocurie is  $10^{-12}$  curies. (check for this symbol)

**RAA** Running Annual Average - The average of four (4) quarterly samples collected in one year

**TT** Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water

**Trihalomethanes** - Chloroform, bromochloromethane, dibromochloromethane, and bromoform