

Water Quality data from 2008 for 2009 Water Quality Report

Microbiological Results (sampled in 2008)					
Contaminant	MCLG	MCL	Highest Monthly	Violation	Major Source
Total Coliform Bacteria	0	<5%/month	0.84%	No	Human and animal fecal waste
Viruses, Giardia	0	TT			Human and animal fecal waste
Legionella	0	TT			Found naturally in water, multiplies in heating systems
Regulated Inorganic Results					
Contaminant	MCLG	MCL	Results	Violation	Major Source
<i>Sampled in March 2003</i>					
Asbestos (million fibers per liter)		7	<0.174	No	Erosion of natural deposits
<i>Sampled in September 2008</i>					
Antimony (ppb)	6	6	<0.1	No	Discharge fro petroleum refineries, fire retardants, ceramics, electronics, solder
Arsenic (ppb)	10	10	<2.0	No	Erosion of natural deposits
Barium (ppm)	2	2	0.018	No	Erosion of natural deposits
Beryllium(ppb)		4	<0.03	No	By-product of industrial processes
Cadmium(ppb)		5	<1.0	No	By-product of industrial processes, erosion of natural deposits
Chromium (ppb)		100	<2.0	No	Erosion of natural deposits
Cyanide (ppb)		200	<20	No	By-product of industrial, mining, and metal finishing processes
Mercury(ppb)		2	<0.1	No	Erosion of natural deposits
Nickel (ppb)		100	3.8	No	Erosion of natural deposits
Nitrite (ppm)	1	1	<0.01	No	Runoff from fertilizer use, leaching from septic tanks, sewage
Selenium (ppb)		50	<2.0	No	Erosion of natural deposits
Thallium (ppb)		2	<0.4	No	Erosion of natural deposits
<i>Sampled 2008</i>					
Fluoride (ppm)		4	Average: 1.07 Range: 0.86 - 1.25	No	Water additive which promotes strong teeth, erosion of natural deposits, discharge from fertilizer and aluminum factories
Nitrate (ppm)	10	10	0.34	No	Runoff from fertilizer use, leaching from septic tanks, sewage Erosion of natural deposits
Organic Results (sampled in 2008)					
Contaminant	MCLG	MCL	Results	Violation	Major Source
TTHM (ppb) (total trihalomethanes)	0	80	29.8 Range: 10.2 - 58.9	No	By-product of drinking water chlorination
HAA (ppb) (haloacetic acids)	0	60	16.3 Range 7.3 - 29.2	No	By-product of drinking water chlorination
Volatile Organic Compounds (ppb)	38 other compounds were tested with no detection of any of these chemicals			No	By-product of industrial processes, petroleum production, gas stations, urban storm run-off and residential uses
Synthetic Organic Compounds (ppb)	40 compounds were tested with no detection of any of these chemicals			No	By-product of industrial processes, petroleum production, gas stations, urban storm run-off and residential uses
Lead and Copper Results (sampled in 2008)					
Results of Lead and Copper Sampling at Residential Water Taps in Wind Point					
Contaminant	Number of sites Exceeding A.L.	MCLG	Action Level	90% Level Violation	Major Source
Copper (ppm)	0 out of 10	1.3	A.L.=1.3	0.58 No	Corrosion of household plumbing systems, Erosion of natural deposits
Lead (ppb)	0 out of 10	0	A.L. = 15	2.50 No	Corrosion of household plumbing systems, Erosion of natural deposits
Particulate Results (sampled in 2008)					
Contaminant	MCLG	MCL	Results	Violation	Major Source
Turbidity (NTU)	na	TT Never > 1 95% of time < 0.5	Highest = 0.053 Average Daily Highest = 0.043	No	Soil runoff, suspended matter in source water
Radiological Results					
<i>Combined Radium Tested in 2008, Gross Alpha and Beta Tested in 2008</i>					
Contaminant	MCLG	MCL	Results	Violation	Major Source
Beta/photo Emitters (pCi/l)	0	50	2.2	No	Decay of natural and man-made deposits
Alpha Emitters (pCi/l)	0	15	1	No	Erosion of natural deposits
Combined Radium (pCi/l)	0	5	0.6	No	Erosion of natural deposits
Unregulated Contaminant Results (sampled in 2008)					
Contaminant	MCLG	MCL	Results	Violation	Major Source
Sodium (ppm)	na	na	7.4		Erosion of natural deposits
Sulfate (ppm)	na	na	21		Erosion of natural deposits
Ortho-phosphate (ppm)	na	na	0.42		Erosion of natural deposits, addition of chemical in water treatment
Iron (ppm)	na	na	0.02		Erosion of natural deposits, addition of chemical in water treatment
Total Organic Carbon (ppm)			1.71		Decay of natural and man-made deposits

For a more comprehensive water quality parameter list, please contact the Racine Water Utility