

O. Fred Nelson Water Production Plant Results of Regulated and Unregulated Characteristics of Kenosha Water Quality <i>(The results meet or surpass all state and federal drinking water standards)</i>						Additional information on water quality or unregulated contaminants may be obtained by contacting the Kenosha Water Utility at 262-653-4330
Parameter	Units	Highest Level Detected	Range/Comments	MCL or {MRDL}	MCLG or {MRDLG}	Possible Sources in Water
Microbiological Contaminants						
Total Coliform Bacteria	% positive samples	1	1	presence of coliform bacteria in less than 5% of monthly samples	0	naturally present in the environment
Disinfection Byproducts						
Haloacetic acids	ppb	10 (avg)	7 to 12	60	60	by-product of disinfection process
Total Trihalomethanes	ppb	30.3 (avg)	23.8 to 37.9	80	0	by-product of disinfection process
Inorganic Contaminants						
Antimony *	ppb	0.2	0.2	6	6	fire retardants, electronics
Arsenic *	ppb	1	1	10	n/a	erosion of natural deposits
Barium *	ppm	0.017	0.017	2	2	erosion of natural deposits
Cadmium *	ppb	0.1	0.1	5	5	erosion of natural deposits
Chromium *	ppb	1	1	100	100	erosion of natural deposits
Copper *	ppm	0.13 (AL)	0 of 31 sites > AL	1.3 (AL)	1.3	corrosion of household plumbing materials
Fluoride *	ppm	1.1	1.1	4	4	additive to reduce tooth decay
Lead *	ppb	8.40 (AL)	1 of 31 sites > AL	15 (AL)	0	corrosion of household plumbing materials
Nickel *	ppb	0.98	0.98	100		naturally present in the environment
Nitrate as N	ppm	0.39	0.39	10	10	runoff from fertilizers
Sodium	ppm	10.00	10.00	n/a	n/a	
Radioactive Contaminants						
Radium (226+228)**	pCi/l	0.8	0.8	5	0	erosion of natural deposits
Unregulated Contaminants						
Bromodichloromethane	ppb	9.75 (avg)	8.40 to 11.00	n/a	n/a	by-product of disinfection process
Bromoform	ppb	0.15 (avg)	ND to 0.60	n/a	n/a	by-product of disinfection process
Chloroform	ppb	15.50 (avg)	11.00 to 22.00	n/a	n/a	by-product of disinfection process
Dibromochloromethane	ppb	4.88 (avg)	4.40 to 5.60	n/a	n/a	by-product of disinfection process
Sulfate *	ppm	24.00	24.00	n/a	n/a	
Total Organic Carbon	mg/l	1.5 (avg)	0.94 to 2.1	TT		naturally present in the environment
Total Chlorine	ppm	1.39	1.10 to 1.39	{4}	{4}	water additive to control microbials
Total Hardness	ppm	142	130 to 142	500		
Turbidity	NTU	0.040	0.024 to 0.040	less than 0.30		soil runoff
Alkalinity	ppm	114	101 to 114	Abbreviations		
Conductivity	µS/cm	331	265 to 331	NTU - Nephelometric Turbidity Units		
Ortho-phosphate	ppm	0.24	0.11 to 0.24	pCi/l picocuries per liter		µS/cm - microsiemens/centimeter
pH	pH units	7.74	7.30 to 7.74	ppb - parts per billion (ug/l)		N.D. - not detected
Temperature	Fahrenheit	70	36 to 70	ppm - parts per million (mg/l)		* tested in 6-2008 **tested in 3-2009
Definitions:						
Treatment Technique (TT) -			A required process intended to reduce the level of a contaminant in drinking water.			
Action Level (AL) -			The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water must follow. Action levels are reported at the 90th percentile for homes at greatest risk.			
Maximum Contaminant Level - (MCL)			The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as system feasible using the best available treatment technology.			
Maximum Contaminant Level Goal - (MCLG)			The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of			
Maximum Residual Disinfectant Level - {MRDL}			The level of a disinfectant added for water treatment that may not be exceeded at the consumers tap.			
Maximum Residual Disinfectant Level Goal - {MRDLG}			The level of a disinfectant added for water treatment below which ther risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.			