O. Fred Nelson Water Production Plant

Results of Regulated and Unregulated Characteristics of Kenosha Water Quality

(The results meet or surpass all state and federal drinking water standards)

Additional information on water quality or unregulated contaminants may be obtained by contacting the Kenosha Water Utility at 262-653-4330

Parameter	Units	Level Found	Range/Comments	MCL or {MRDL}	MCLG or {MRDLG}	Possible Sources in Water
Antimony *	ppb	0.2	0.2	6	6	discharge from fire retardants
Arsenic *	ppb	1	1	10	n/a	erosion of natural deposits
Bromodichloromethane	ppb	9.98	9.40 to 11.00	n/a	n/a	by-product of disinfection process
Bromoform	ppb	0.13	ND to 0.50	n/a	n/a	by-product of disinfection process
Barium *	ppm	0.017	0.017	2	2	erosion of natural deposits
Cadmium *	ppb	0.1	0.1	5	5	erosion of natural deposits
Chloroform	ppb	15.5	12.0 to 19.0	n/a	n/a	by-product of disinfection process
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
Dibromochloromethane	ppb	5.13	4.60 to 5.80	n/a	n/a	by-product of disinfection process
Fluoride **	ppm	1.1	1.1	4	4	additive to reduce tooth decay
Haloacetic acids	ppb	12 (avg)	7 to 14	60	60	by-product of disinfection process
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	0.49	0.49	10	10	runoff from fertilizers
Radium (226+228)	pCi/l	0.8	0.8	5	0	erosion of natural deposits
Sodium	ppm	10	10	n/a	n/a	
Total Organic Carbon	mg/l	1.6 (avg)	1.3 to 2.0	TT		naturally present in the environment
Total Chlorine	ppm	1.36	1.05 to 1.36	{4}	{4}	water additive to control microbials
Total Coliform Bacteria (including e. coli)	% positive samples	0	0	presence of coliform bacteria in less than 5% of monthly samples	0	naturally present in the environment; e.coli only come from human and animal fecal waste
Total Trihalomethanes	ppb	30.7 (avg)	26.3 to 36.3	80	0	by-product of disinfection process
Total Hardness	ppm	150	128 to 150	500		
Turbidity	NTU	0.065	0.015 to 0.065	less than 0.30		soil runoff
Alkalinity	ppm	119	100 to 119			
Conductivity	µS/cm	320	246 to 320			
Ortho-phosphate	ppm	0.23	0.09 to 0.23			
pH	pH units	7.77	7.22 to 7.77			
Sulfate *	ppm	24	24			
Temperature	Fahrenheit	70	36 to 70			

Abbreviations

NTU - Nephelometric Turbidity Units

pCi/l - picocuries per liter

µS/cm - microsiemens/centimeter

ppb - parts per billion (µg/l)

N.D. - not detected

ppm - parts per million (mg/l)

*tested in 6-2008 **tested in 4-2008

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 system 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 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 safety.
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 there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.