

2016 Detected <u>REGULATED</u> Contaminants		MCL Violation If	Units	MCLG	East Jefferson Highest Month		West Jefferson Highest Month		Violation Yes / No	Source of Contaminant
Total Coliform Bacteria (Percentage of monthly samples containing coliform bacteria)		> 5% of monthly samples containing coliform bacteria	%	0	1.3		2.3		No	An indicator which is naturally present in the environment and not in itself harmful.
		MCL Violation If	Units	MCLG	East Jefferson Max Value Min %		West Jefferson Max Value Min %		Violation Yes / No	Source of Contaminant
Turbidity (Lowest monthly percentage of samples at or below 0.3 NTU and the highest single sample result)	TT	< 95 % at or below 0.3 NTU or a single sample > 1 NTU	%	NA	NA	100	NA	100	No	Naturally present particulate matter derived from soil runoff which is used as an indicator and is not in itself harmful.
			NTU	NA	0.3	NA	0.3	NA		
		MCL Violation If	Units	MCLG	East Jefferson Range Min		West Jefferson Range Min		Violation Yes / No	Source of Contaminant
Total Organic Carbon (TOC) (Ratio of the percentage of the TOC removed divided by the percentage TOC required to be removed)		Ratio < 1 (Annual Average)	Ratio	NA	0.4 - 2.2	1.2	0.6 - 3.1	1.2	No	Harmless natural organic material which forms chlorinated by-products (TTHMs & THAAs) during disinfection
Contaminant		MCL Violation If	Units	MCLG	East Jefferson Range Max		West Jefferson Range Max		Violation Yes / No	Source of Contaminant
Alachlor		> 2 (Annual Average)	ppb	3	0.2 - 0.4	0.3	0.2 - 0.3	0.2	No	Runoff from herbicide used on row crops, primarily in the corn belt
Arsenic		> 10 (Annual Average)	ppb	0	0.6 - 2.3	1.4	0.6 - 2.1	1.3	No	Erosion of natural deposits; Runoff from orchards, glass and electronics production wastes
Atrazine		> 3 (Annual Average)	ppb	3	BD - 0.1	0.1	BD - 0.1	0.1	No	Runoff from herbicide used on row crops, primarily in the corn belt
Barium		> 2000 (Annual Average)	ppb	2000	51 - 69	60	51 - 69	60	No	Discharges of drilling wastes and metal refineries; erosion of natural deposits
Benzo(A)Pyrene		> 200 (Annual Average)	ppt	0	NA	BD	NA	24.0		Leaching from linings of water storage tanks and distribution lines
Beta Particle Activity		> 50 (Annual Average)*	pCi/L	0	2.3 - 2.6	2.6	NA	2.7	No	Decay of natural and man-made deposits
Chromium		> 100 (Annual Average)	ppb	100	0.2 - 1	0.4	0.2 - 1	0.4	No	Erosion of natural deposits
Fluoride		> 4 (Annual Average)	ppm	4	0.2 - 1.0	0.7	0.3 - 1.1	0.7	No	Erosion of natural deposits and water additive promoting strong teeth
Hexachlorocyclopentadiene		> 50 (Annual Average)	ppb	50	0.032 - 0.038	0.038	BD	BD		Discharge from chemical factories
Nitrate (as nitrogen)		> 10 (Any time)	ppm	10	1.0 - 5.4	5.4	1.2 - 5.4	5.4	No	Runoff from fertilizer use and erosion of natural deposits
Selenium		> 50 (Annual Average)	ppb	50	BD	BD	BD - 0.6	0.6		Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Simazine		> 3 (Annual Average)	ppb	3	BD - 0.2	0.2	BD - 0.1	0.2	No	Runoff from herbicide used on row crops, primarily in the corn belt
Total Chlorine Residual		> 4 (Annual Average)	ppm	4	0.1 - 5	2	0.02 - 4.3	2.2	No	Required by EPA for Disinfection
THAAs (Total haloacetic acids)		> 60 (Annual Average)	ppb	0	14 - 65	63	7 - 73	62.0	No	By-product of drinking water disinfection using chlorine
TTHMs (Total trihalomethanes)		> 80 (Annual Average)	ppb	0	22 - 78	71	8 - 123	77	No	By-product of drinking water disinfection using chlorine
		Action Level (AL) Exceeded If	Units	MCLG	East Jefferson 90th Pct # > AL		West Jefferson 90th Pct # > AL		Violation Yes / No	Source of Contaminant
Copper (2016 last required monitoring)		> 1.3	ppm	1.3	0.3	0	0.4	1	No	Household plumbing corrosion and erosion of natural deposits
Lead (2016 last required monitoring)		> 15	ppb	0	6	1	3	0	No	Corrosion of household plumbing

" * " = EPA considers 50 pCi/L to be the level of concern for beta particles; " > " = Greater than; " < " = Less than; # > AL = number of samples greater than the action level; AL = Action Level - The concentration of the 90th percentile of analysis results, when exceeded, triggers treatment or other requirements which a water system must follow (there is no MCL or MCLG for these contaminants); **Annual Average** = Annual running average determined from the average of the sample results over the previous 12 months; **BD** = Below detection of the analytical method - the contaminant was not found; **Max** = Maximum observed value or maximum annual running average (annual average) used for regulatory compliance; **MCL** = Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water which is set as close to the MCLGs as feasible using the best available treatment technology; **MCLG** = Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health - MCLGs allow for a margin of safety; **NA** = Not applicable; **NTU** = Nephelometric Turbidity Units; **90th Pct** = 90th percentile of sample analysis results; **pCi/L** = Picocuries per liter (a measure of radioactivity); **50 pCi/L** = 4 milliroentgen equivalent man / year (4 mrem/yr); **ppm** = Parts per million or milligrams per liter (mg/L) - equivalent to 1 minute in 2 years or \$0.01 in \$10,000; **ppb** = Parts per billion or micrograms per liter (ug/L) - equivalent to 1 minute in 2,000 years or \$0.01 in \$10 million; **Range** = Range of all sample analysis results observed; **TT** = Treatment technique - A required process intended to reduce the level of a contaminant in drinking water