

2023 Drinking Water Quality Report For Waverly Water Department

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation Yes/No	Source
		Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	16.12 (8.04-24.2)	9/30/2023	No	By-products of drinking water chlorination
Lead (ppb)	AL=15 (0)	90th	.00472 (.00103-.0527) 1 sample exceeded AL.	2023	No	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	AL=1.3 (1.3)	90th	0.167 (0.448 - 0.00103)	2023	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
950 - DISTRIBUTION SYSTEM						
Chlorine (ppm)	MRDL=4.0 (MRDLG=4.0)	RAA	.788 (.59-.962)	2023	No	Water additive used to control microbes
02 - FINISHED WATER SAMPLE TAP, #5						
Fluoride (ppm)	4 (4)	RAA	.93 (.6-1.1)	2023	No	Water additive which promotes strong teeth; Erosion of natural deposits
Nitrate [as N] (ppm)	10 (10)	SGL	6.42 (6.19-6.78)	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
03 - FINISHED WATER SAMPLE TAP, #6						
Fluoride (ppm)	4 (4)	RAA	.95 (.87-1.18)	2023	No	Water additive which promotes strong teeth; Erosion of natural deposits
Nitrate [as N] (ppm)	10 (10)	SGL	6.99 (6.80-7.31)	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
04 - FINISHED WATER SAMPLE TAP, #7						
Fluoride (ppm)	4 (4)	RAA	1.07 (1.00-1.25)	2023	No	Water additive which promotes strong teeth; Erosion of natural deposits
Nitrate [as N] (ppm)	10 (10)	SGL	8.35 (7.42-8.94)	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
05 - FINISHED WATER SAMPLE TAP, #8						
Fluoride (ppm)	4 (4)	RAA	.80 (.67-1.22)	2023	No	Water additive which promotes strong teeth; Erosion of natural deposits
Nitrate [as N] (ppm)	10 (10)	SGL	9.50 (8.25-9.95)	2023	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

DEFINITIONS

- Maximum Contaminant Level (MCL) – The highest level of a contaminant allowed in drinking water. MCL’s are set as close to the MCL’Gs 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. MCLGs (Maximum Contaminant Level Goals) allow for a margin of safety.
- ppb -- parts per billion
- ppm -- parts per million
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

- Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs (Maximum Residual Disinfectant Level Goal) (Maximum Residual Disinfectant Level Goal) do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- SGL – Single Sample Result
- RTCR – Revised Total Coliform Rule

GENERAL INFORMATION

Drinking water, including bottled water, may be expected to contain at least insignificant amounts of some contaminants. The presence of contaminants does not necessarily indicate that water posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Waverly Water Department is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

ADDITIONAL HEALTH INFORMATION

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

SOURCE WATER ASSESSMENT INFORMATION

The Waverly water supply consists of four groundwater wells that draw water from the Silurian-Devonian aquifer. The wells range in depth from 150 to 220 feet deep. The Silurian-Devonian aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Silurian-Devonian wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources and is available from Mike Seehusen, Water and Sewer Foreman at (319)352-6261.

CONTACT INFORMATION

If you want to know more about this report or have questions about your water utility, contact Mike Seehusen at (319)352-6261. Copies of this report are available from the Public Services Office at 2900 5th Ave. NW. It can also be found on our website at www.waverlyia.com/public-works/services/water.