



2023 WATER QUALITY REPORT

FOR HARLAN MUNICIPAL UTILITIES



This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our water quality testing shows the following results:

CONTAMINANT	MCL - (MCLG)	Compliance		Date	Violation	Source
		Type	Value & (Range)			
Total Trihalomethanes (ppb) [TTHM]	80 (N/A)	LRAA	21.00 (21 - 21)	09/30/2022	No	By-products of drinking water chlorination
Copper (ppm)	AL=1.3 (1.3)	90th	0.09 (ND - 0.11)	2021	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb)	AL=15 (0)	90th	0.00 (ND - 1)	2021	No	Corrosion of household plumbing systems; erosion of natural deposits
Chlorine (ppm) 950-Harlan Distribution System	MRDL=4.0 (MRDLG=4.0)	RAA	1.2 (0.57 - 1.91)	12/31/2022	No	Water additive used to control microbes
Chlorine (ppm) 951-Cresthaven Distribution System	MRDL=4.0 (MRDLG=4.0)	RAA	0.9 (ND - 1.04)	12/31/2022	No	Water additive used to control microbes
Fluoride (ppm)	4 (4)	SGL	0.92 (0.73 - 0.92)	02/21/2022	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Manganese (ppm)	AL = .3 (N/A)	SGL	ND	1/11/2022	No	Manganese is a common, naturally occurring mineral found in rocks, soil, groundwater, and surface water.
Sodium (ppm)	N/A (N/A)	SGL	40	04/25/2022	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10 (10)	SGL	0.50	2022	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Per-and Poly FluoroAlkyl Compounds (ppt)	N/A (N/A)	SGL	ND	08-11-2022	No	Used in the making carpets, clothing, fabrics for furniture, paper packaging for food and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used for firefighting at airfields and in a number of industrial processes
Arsenic (ppb)	10	SGL	ND	4-25-2022	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronic production waste

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 that is allowed in drinking water. MCLs are set as close to the MCLGs 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 allow for a margin of safety.
- ppt – parts per trillion
- ppb -- parts per billion
- ppm -- parts per million
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- RAA – Running Annual Average
- 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.
- 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 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
- NTU – Nephelometric Turbidity Units

GENERAL INFORMATION

Drinking water, including bottled water, may reasonably be expected to contain at least small 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. HARLAN MUNICIPAL UTILITIES 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>.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the sand and gravel of the Alluvial aquifer. The Alluvial 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 Alluvial 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 Harlan Municipal Utilities at 712-755-5182 or at

<https://programs.iowadnr.gov/sourcewater/SystemDetail.aspx?pwsid=8335029>

CONTACT INFORMATION

For questions regarding this information, please contact Donald Cote' with Harlan Municipal Utilities at 712-733-0021 during the following hours: 7:30am - 4:00pm Monday thru Friday. This report will not be mailed out and is available online at Harlanet.com or at our office upon request.

Decisions regarding the water system are made at the Harlan Municipal Utilities Board of Trustees meetings held on 2nd and 4th Thursdays of each month at 4 p.m. at Harlan Municipal Utilities, 2412 Southwest Ave, Harlan, Iowa. Board meetings are open to the public.