

2019 WATER QUALITY REPORT FOR Xenia Rural Water District – Madrid System

This report contains important information regarding the water quality in our water system. All water for this system is purchased from the Madrid Water Department and the source of this water is groundwater under the influence of surface water. Our water quality testing shows the following results:

During 2019 we used water from the Xenia Boone System emergency connection. See the Xenia Rural Water District – Boone System CCR for more info on your water.

Xenia Rural Water District Water Quality Results

CONTAMINANT	MCLG	MCL	DETECTED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
Lead (ppb)	0	AL=15	1.60 90 th	2019	ND – 2	No	Corrosion of household plumbing systems; erosion of natural deposits
Chlorine (ppm)	MRDLG =4.0	MRDL=4.0	1.20	2019 RAA	0.61 – 1.92	No	Water additive used to control microbes
Copper (ppm)	1.3	AL=1.3	0.0136 90 th	2019	ND – 0.0448	No	Corrosion of household plumbing systems; Erosion of natural deposits
TTHM (ppb) [Total trihalomethanes]	N/A	80	76 LRAA	2019	44 - 111	Yes	By-products of drinking water disinfection
Haloacetic Acids (HAA5) (ppb)	N/A	60	22 LRAA	2019	19 – 26	No	By-products of drinking water disinfection

Water Quality Results Provided by Madrid Water Department (Supply ID 0848015)

CONTAMINANT	MCLG	MCL	DETECTED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
Fluoride (ppm)	4	4	0.70	2019 RAA	0.39 – 0.93	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Turbidity	N/A	N/A	0.12 100% Meeting Requirements	2019	N/A	No	Soil runoff
Sodium (ppm)	N/A	N/A	14.8	2019	N/A	No	Erosion of natural deposits; Added to water during treatment process
Total Organic Carbon (TOC)	N/A	TT	15%	2019	15% - 47%	No	Naturally present in the environment
Barium (ppm)	2	2	.0107	8/07/2012	N/A	No	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits
Nitrate [as N] (ppm)	10	10	0.3	2019	NA	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Di (2-ethylhexyl)phthalate (ppb)	0	6	1.30	2019	NA	No	Discharge from rubber and chemical factories

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.
- ppb -- parts per billion.
- ppm -- parts per million.
- N/A -- Not applicable
- ND – Not Detected
- RAA -- Running Annual Average
- 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. Xenia Rural Water District 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 some or all of its water from another public water supply. It is a consecutive water supply, where an originating parent supply provides drinking water to one or more downstream supplies.

Original Supply ID	Original Supply Name
IA0848015	Madrid Water Department

OTHER INFORMATION

Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

Our water utility is making every effort to protect the water system from potential security threats. You, as customers, can also help. If you see any suspicious activity near the water tower, treatment plants, pump stations, meter vaults or fire hydrants, please contact us at 1-888-355-2619 or the local police/sheriff department. We appreciate your assistance in protecting the water system.

CONTACT INFORMATION

For questions regarding this information, please contact Dominic Hayden (Water Treatment Operator) at 1-888-355-2619 during the following hours: 8am -4:30pm, Monday through Friday. Or attend any of the regular monthly board meetings typically held on Thursday of the third full week of the month at 23998 141st St, Bouton, Iowa.