

2011 WATER QUALITY REPORT FOR Denison Municipal Utilities

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our groundwater is drawn from an alluvial aquifer located along the Boyer river bottom. Our water quality testing shows the following results.

CONTAMINANT	MCLG	MCL	DETECT ED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
Lead (ppb)	0	AL=15	0	9/30/10	ND	None	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	1.3	AL=1.3	0.024	9/30/10	0-0.058	None	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
(TTHM) Total Trihalomethanes (ppb) IDSE	N/A	80	29.80	1/1-12/31 2010	28.9-29.8	None	By-products of drinking water disinfection
(HAA5) Haloacetic Acids (ppb) IDSE	N/A	60	19.50	1/1-12/31 2010	10.7-19.5	None	By-products of drinking water disinfection
(TTHM) Total Trihalomethanes (ppb)	N/A	80	51.7	8/09/10	N/A	None	By-products of drinking water disinfection
(HAA5) Haloacetic Acids (ppb)	N/A	60	9.19	8/09/10	N/A	None	By-products of drinking water disinfection
Flouride (ppm)	4	4	1.24	04/10	.66 - 1.24	None	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A	N/A	16.8	3/19/08	N/A	None	Erosion of natural deposits; Added to water during treatment process
Nitrate (ppm)	10	10	<1.0	09/17/10	N/A	None	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Chlorine (ppm)	MRDLG-4.0	MRDL-4.0	1.20	RAA	0.93-1.38	None	Water additive used to control microbes

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. 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 health risk. MCLG's allow for a margin of safety
- **PPB** – parts per billion
- **PPM** – parts per million
- **N/A** – Not applicable
- **ND** – No detect
- **Action Level (AL)** – The concentration of a contaminant which if exceeded, triggers treatment or other requirements which a water system must follow.
- **Maximum Residual Disinfection Level Goal (MRDLG)** – the level of drinking water disinfection below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Maximum Residual Disinfection 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
- **RAA** – Running annual average

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 poses 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 at (800-426-4791)

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as patients with cancer under going chemotherapy, people 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 lesson the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791)

CONTAMINANT VIOLATIONS

None

ADDITIONAL HEALTH INFORMATION

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. Denison 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 (800-426-4791) or at <<http://www.epa.gov/safewater/lead>>

OTHER VIOLATIONS

None

SOURCE WATER ASSESSMENT INFORMATION

AQUIFER NAME: alluvial SUSCEPTIBILITY: high

This water supply obtains water from one or more groundwater aquifers. Every aquifer has a degree of susceptibility to contamination because of the characteristics of the aquifer, overlying materials, and human activity. Susceptibility to contamination generally increases with shallower aquifers, increasing permeability of the aquifer and overlying material, nearby development or agricultural activity, and abandoned or poorly maintained wells. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources, and is available from Denison Municipal Utilities.

OTHER INFORMATION

Our water utility is making every effort to protect the water system from potential security threats. You, as a customer, can also help. If you see any suspicious activity near the water towers, treatment plant, wells or fire hydrants, please contact us at (712-263-4458) or the local sheriff/police department. We appreciate your assistance in protecting the water supply.

CONTACT INFORMATION

For questions regarding this information, please contact Jack Webb at 712-263-4458 during the hours of 7:00-4:00 Monday-Friday.

Decisions regarding the water system are made at the Denison Municipal Utilities board meetings held on the third Monday of each month at 4:30 PM at the Denison Municipal Service Center located at 721 Broadway. The meetings are open to the public.

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