

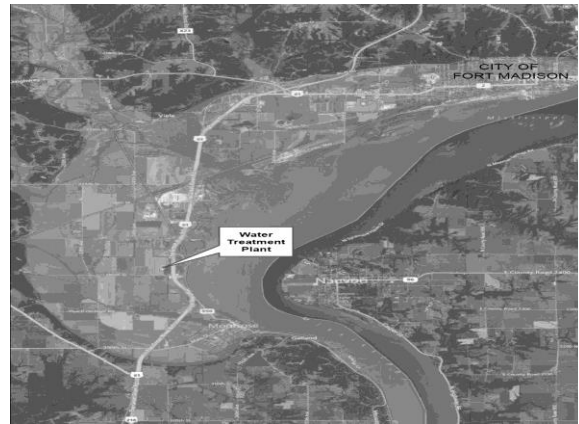
CITY OF FORT MADISON WATER DEPARTMENT

WHERE DOES MY WATER COME FROM



Fort Madison's source of water for our new Reverse Osmosis (RO) plant is from 5 wells that are in the Mississippi Aquifer, and are in a location with a minimal chance of contamination. A printed detailed evaluation of your source was completed by the Iowa Department of Natural Resources and is available at the Fort Madison Water office, along with a printed copy of the CCR.

Water quality is our primary commitment at the City of Fort Madison Water Department. We believe that the best way to assure you that your drinking water is safe is to provide you with accurate facts. The information in this Consumer Confidence Report summarizes the results of our water monitoring program as required by the Environmental Protection Agency (EPA) during 2018. Many of the analyses are required by the Safe Drinking Water Act and other regulations. However, we monitor for contaminants above and beyond the basic requirements. If you have any questions about the information in this report, please contact us at (319) 463-5200. The City of Fort Madison Water Department is dedicated to providing you, the customer, with the safest and most dependable supply of drinking water available.



DRINKING WATER AND HEALTH INFORMATION FROM THE EPA

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations on the amount of certain contaminants in water provided by public water systems. Some people may be more vulnerable to certain contaminants in drinking water than the general population. Immune-compromised persons, such as persons with cancer, persons 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 from their health care providers about drinking water. The EPA and Centers for Disease Control and Prevention guidelines on appropriate means to reduce the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline. High nitrate levels 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 for advice from your health care provider. Many customers wish to know if bottled water is safer than regular tap water. The Food and Drug Administration (FDA) establishes limits for contaminants in bottled water that must provide the same protection for public health. Any bottled water labeled "drinking water" has to meet EPA's drinking water regulations. 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 and potential health effects can be obtained by contacting the:

EPA Safe Drinking Water Hotline: 1-800-426-4791

<http://water.epa.gov/drink>

AWWA Safe Drinking Water Web Site: www.drinktap.org

For more information on this Consumer Confidence Report or other water quality concerns, please contact:

City of Fort Madison Water Department
 Larry Driscoll
 811 Avenue E - P.O.Box 240
 Fort Madison, IA 52627
 Phone (319) 372-1602
 Fax: (319) 372-8661
 e-mail: ldriscoll@fortmadison-ia.com

Or Water Plant Superintendent
 Norman Dodson
 2489 280th Street
 Montrose, IA 52639
 Phone (319) 463-5200
 Fax (319) 463-5201
 e-mail: ndodson@fortmadison-ia.com

Public Meeting Information
 The Fort Madison City Council meets the 1st and 3rd Tuesday of each month at 7:00 p.m. All public meetings are open to the public.

2018 WATER QUALITY RESULTS

SUBSTANCE	YEAR TESTED	VIOLATION YES/NO	HIGHEST LEVEL ALLOWED (MCL)	HIGHEST DETECTED LEVEL	UTILITY RANGE	EPA MCLG (EPA GOAL)	SOURCES OF CONTAMINANT
MICROBIOLOGICAL CONTAMINANTS							
Total Coliform pos.	2018	No	5%	0%	0%	0%	Naturally present in the environment.
Fecal Coliform pos.	2018	No	0%	0%	0%	0%	
INORGANIC CHEMICALS							
Fluoride (ppm)	2018	No	2.0	0.78	0.61 - 0.78	2.0	Additive to promote strong teeth; discharge from fertilizer and aluminum factories; erosion of natural deposits
Nitrate (as N) (ppm)	2018	No	10	0.00	N/A	10	Discharge from fertilizer and aluminum factories, erosion of natural deposits and runoff from fertilizer use and leaching from septic tanks and sewage.
Barium (ppm)	2011	No	2	0.2	N/A	2	
Sodium (4/01) (ppm)	2017	No	N/A	17	N/A	N/A	Erosion of natural deposits
DISINFECTANTS							
Chlorine (ppm)	2018	No	N/A	1.46 RAA	1.29 - 1.68	4.0 RAA	Water additive to control microbes
ORGANIC CONTAMINANTS							
Total Trihalomethane (TTHM) (ppb)	2018	No	80 * RAA	3.7 RAA	0 - .0037	N/A	Byproduct of treatment process
Total Haloacetic Acids (HAA5) (ppb)	2018	No	60 * RAA	0 RAA	0 - 0.000	N/A	Byproduct of treatment process
COPPER AND LEAD - REGULATED AT CUSTOMER TAP							
Copper (ppm)	2018	No	1.3	0.09	<0.01 - 0.15	0	Corrosion of home plumbing; erosion of natural deposits
Lead (ppb)	2018	No	15.0	0.00	<1.0 - 2.0	0	Corrosion of home plumbing; erosion of natural deposits

Note: The EPA requires monitoring of over 80 drinking water contaminants. Those listed above are the only contaminants detected in your drinking water. For a complete list of contaminants, contact the City of Fort Madison Water Department.

Definitions

Action Level (AL) The concentration of a contaminant that, if exceeded, triggers a treatment or other requirement that a water system must follow.

Inorganic Contaminants Such as salts and metals, which can occur naturally or come from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Maximum Contaminant Level (MCL) The highest level of a contaminant 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.

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.

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.

Microbiological Contaminants Very small organisms, such as viruses and bacteria, which may come from sewage treatment organisms, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

N/A Not applicable.

NTU Nephelometric Turbidity Units.

Organic Contaminants Including synthetic and volatile organic cherr industrial and petroleum process byproducts and can also come from urban stormwater runoff and septic systems.

pCi/l Picocuries per liter.

ppb Parts of contaminant per billion parts of water. One part per billion equivalent to a single penny in ten million dollars. ppb may also be referred to as micrograms per liter.

ppm Parts of contaminant per million parts of water. One part per million (ppm) equivalent to a single penny in ten thousand dollars. ppm may also be referred to as milligrams per liter.

Pesticides and Herbicides May come from agriculture, urban stormwater runoff and residential use.

RAA Running Annual Average

Radioactive Contaminants Occur naturally or result from oil and gas production activities.

TOC Total organic carbon in untreated water.

Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.

ND Not detected at testing limit.

MORE WATER INFORMATION

Chlorine Disinfectant

The most common drinking water treatment is disinfection. Disinfection is considered to be the primary mechanism to kill bacteria and other germs to prevent the spread of waterborne diseases. Chlorine is the most widely used disinfectant. Disinfectants combine with organic and inorganic matter present in water to form chemicals called disinfectant byproducts. EPA sets standards for controlling the levels disinfectants and disinfectant byproducts in drinking water. The Water Quality Results Chart reflects these standards and the utility's ability to meet those standards.

Fluoride

Some fluoride is naturally present in the source water. The amount is carefully monitored every day so optimum concentration is maintained. If you have concerns about fluoride, you should discuss this with your dentist and doctor.

Nitrate

Nitrate in drinking water at levels above 10ppm is a health risk for infants less than 6 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 agriculture activity. If you are caring for an infant, you should ask for advice from your health care provider.

Lead

If present, elevated levels of lead can cause serious health problems for pregnant women and young children. Lead in drinking water is from materials and components associated with service lines and plumbing. The City of Fort Madison Water Department is responsible for providing high quality drinking water, but cannot control the various used in plumbing components. When your water has been sitting in pipes for hours, you can minimize the potential for lead exposure by flushing the 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 to minimize exposure is available from the Safe Drinking Water Hotline at www.epa.gov/safewater/lead.

Total Trihalomethanes (TTHM)

Some people who drink water containing trihalomethanes in excess over many years may experience problems with their liver, kidney, and nervous system and may have an increased risk of getting cancer.

Unregulated Contaminants

EPA requires systems of our size to take samples in an assessment phase for Unregulated Contaminant Monitoring Regulations (UCMR). There were no detectable levels in our drinking water. For more information on unregulated contaminants, please contact us at (319) 463-5200.

CAPITAL IMPROVEMENT PROJECTS

This year we are revamping our four pressure filters. This is to help maintain clean safe water for our City and surrounding community.

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