

# 2020 Consumer Confidence Report Data



## Water System Information

If you would like to know more about the information contained in this report, please contact Chad Wolter at (608) 573-1702.

## Opportunity for Input on Decisions Affecting Your Water Quality

Public Works & Utility Committee meetings are held the first Tuesday of each month at 6:00 pm in Council Room at City Hall, 130 South Main Street.

## Health 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 and 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 systems 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 Environmental Protection Agency's safe drinking water hotline (800-426-4791).

## Source(s) of Water

Source ID	Source	Depth (in feet)	Status
2	Groundwater	334	Active
3	Groundwater	300	Active
4	Groundwater	418	Active

To obtain a summary of the source water assessment please contact, Chad Wolter at (608) 573-1702.

## Educational Information

The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

## Detected Contaminants

Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was detected last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2020)	Violation	Typical Source of Contaminant
<b>Disinfection Byproducts</b>								
HAA5 (ppb)	D-17	60	60	1	1		No	By-product of drinking water chlorination
TTHM (ppb)	D-17	80	0	2.6	2.6		No	By-product of drinking water chlorination
<b>Inorganic Contaminants</b>								
ARSENIC (ppb)		10	n/a	1	0 - 1		No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
BARIUM (ppm)		2	2	0.031	0.014 - 0.031		No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
CHROMIUM (ppb)		100	100	2	1 - 2		No	Discharge from steel and pulp mills; Erosion of natural deposits
FLUORIDE (ppm)		4	4	0.6	0.1 - 0.6		No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
NITRATE (NO3-N) (ppm)		10	10	6.15	0.98 - 7.10		No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SELENIUM (ppb)		50	50	1	0-1		No	Discharge from petroleum and metal refineries; Erosion of Natural Deposits; Discharge from mines
SODIUM (ppm)		n/a	n/a	9.6	2.80 - 9.60		No	n/a
<b>Radioactive Contaminants</b>								
GROSS ALPHA, EXCL R & U (pCi/l)		15	0	0.9	0.4-0.9		No	Erosion of natural deposits
RADIUM, (226 + 228) (pCi/l)		5	0	0.8	0.0-0.8		No	Erosion of natural deposits
COMBINED URANIUM (ug/l)		30	0	0.4	0.3-0.4		No	Erosion of natural deposits
<b>Synthetic Organic Contaminants including Pesticides and Herbicides</b>								
ATRAZINE (ppb)		3	3	0.0	0.0		No	Runoff from herbicide used on row crops
<b>Unregulated Contaminants</b> EPA has not established drinking water standards. Required testing to assist EPA in determining whether future regulation is warranted.								
SULFATE (ppm)				17.00	4.10-17.00			
<b>Inorganic Contaminants</b>								
Contaminant (units)	Action Level	MCLG	90th Percentile Level Found	# of Results	Sample Date (if prior to 2020)	Violation	Typical Source of Contaminant	
COPPER (ppm)	AL=1.3	1.3	0.1800	0 of 10 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives	
LEAD (ppb)	AL=15	0	6.00	1 of 10 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits	
<b>Definitions</b>								
Term	Definition							
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.							
Level Found	The highest recorded sample between all the sampling locations.							
MCL	Maximum Contaminant Level: 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.							
MCLG	Maximum Contaminant Level Goal: 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.							
pCi/l	picocuries per liter (a measure of radioactivity)							
ppm	parts per million, or milligrams per liter (mg/l)							
ppb	parts per billion, or micrograms per liter (ug/l)							
Range	The range of concentrations found at all sampling points.							

## **Additional Health Information**

**Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of 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 agricultural activity. If you are caring for an infant you should ask advice from your health care provider. Females who are or may become pregnant should not consume water with nitrate concentrations that exceed 10 ppm. There is some evidence of an association between exposure to high nitrate levels in drinking water during the first weeks of pregnancy and certain birth defects. The Wisconsin Department of Health Services recommends people of all ages avoid long-term consumption of water that has nitrate level greater than 10 milligrams per liter (mg/L).

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. Lodi Waterworks 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 [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

## **Monitoring Violation**

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During the compliance period of 7/1/2020 through 10/31/2020, we were required to collect Water Quality Parameter (WQP) samples at each entry point and at two distribution system locations. Samples were collected at all entry points but at only one distribution system location due to a miscommunication between the water operator and the DNR representative regarding the procedures for this new WQP testing. Since we did not complete all of the samples required, we cannot be sure of the quality of your drinking water during that time.

## **Actions Taken**

All Water Quality Parameter sampling will be completed during the next monitoring period of June 1, 2021 and September 30, 2021 along with repeating the lead and copper monitoring during that same time period.

## **PROTECT YOUR DRINKING WATER – CROSS-CONNECTION SAFETY AND PREVENTION**

A cross-connection is an actual or potential connection between the safe drinking water (potable) supply and a source of contamination or pollution. State plumbing codes require approved backflow prevention methods to be installed at every point of potable water connection and use. Cross-connections must be properly protected or eliminated.

When you turn on your faucet, you expect the water to be safe. However, certain hydraulic conditions left unprotected within your plumbing system may allow hazardous substances to contaminate your own drinking water or even the public water supply. Water normally flows in one direction. However, under certain conditions, water can actually flow backwards; this is known as backflow. There are two situations that cause water to flow backward: back siphonage and backpressure.

**Back siphonage:** May occur due to loss of pressure in the municipal water systems during a fire fighting emergency, a water main break or system repair. This creates a siphon in your plumbing system which can draw water out of a sink or bucket and back into your water or public water system.

**Backpressure:** May be created when a source of pressure (such as a boiler) creates a pressure greater than the pressure supplied from the public water system. This may cause contaminated water to be pushed into the plumbing system through an unprotected cross-connection.

To avoid contamination, backflow preventers are required by state plumbing codes wherever there is an actual or potential hazard for a cross connection. The Wisconsin Department of Natural Resources requires all public water suppliers to maintain an on-going Cross-Connection Control Program involving public education, onsite inspections, and possible corrective actions by building owners if required. The purpose of the local Cross-Connection Control Program is to ensure that everyone in the community has safe, clean drinking water.

Let your Lodi Utilities personnel evaluate and protect your drinking water safety. The best way to do this is to give our water specialists easy and courteous access to your plumbing systems when they request to come to your residence.

## PROTECT YOUR DRINKING WATER – CROSS-CONNECTION SAFETY AND PREVENTION

### DO...

- Keep the ends of hoses clear of all possible contaminants.
- Make sure dishwashers are installed with a proper “air gap” device.
- Verify and install a simple hose bibb vacuum breaker on all threaded faucets around your home.
- Make sure water treatment devices such as water softeners have the proper “air gap”, which is a minimum of one inch above any drain.

### DON'T...

- Submerge hoses in buckets, pools, tubes, sinks or ponds.
- Use spray attachments without a backflow prevention device.
- Connect water pipes from water softeners or other treatment systems directly to the sewer or submerged drain. Always be sure there is a one inch “air gap” separation.

## HOW TO PREVENT BACKUPS IN YOUR SEWER LATERAL

No Wipes Down the Pipes  
Even if a product says it is “flushable” ...  
Unless it is toilet paper, it should not be flushed.

- **Properly dispose of grease.** Cooking oil should be poured into a heat-resistant container and disposed of properly after it cools off, not in the drain. Washing grease down the drain with hot water is unsatisfactory. As the grease cools off, it will solidify either in the drain, the property owner's line, or in the main sewer causing the line to constrict and eventually clog.
- **Properly dispose of paper products.** Paper towels, disposable (and cloth) diapers, hygienic wipes and feminine products do not deteriorate quickly and can cause a great deal of trouble in the property owner's lateral as well as in the city main.
- **Periodically cut tree roots.** If you have continuing problems with tree roots in your lateral, you may have to regularly have the roots cut by a professional.
- **Replace your line with new plastic pipe.** Plastic pipe will prevent tree roots from entering your line.
- **Correct illegal plumbing connections.** Do not connect French drains, sump pumps and other flood control systems to your sanitary sewer. It is illegal to do so, and debris and silt will clog your line. Consult a plumber to correct any pre-existing illegal connections.
- **Install a backwater prevention valve,** which is a fixture installed into a sewer line (and sometimes into a drain line) in the basement of your home or business to prevent sewer backflows. A properly installed and maintained backwater valve allows sewage to go out, but not to come back in. Be sure to use a qualified plumber.