



2021 Consumer Confidence Report

Water System Information DNR 11302588

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.
 Dłaim ntawv tshaabzu nuav muaj lug tseemceeb heev nyob rua huv kws has txug cov dlej mej haus. Kuas ib tug paab txhais rua koj, los nrug ib tug kws paub lug thaam.

If you would like to know more about the information contained in this report, please contact Andy Hirvela at (608) 837-5500
 The Sun Prairie Utilities Commission meets at 4:30 pm every 3rd Monday of the month at Sun Prairie Utilities 125 W Main Street, Sun Prairie.

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	Source id	Source	Depth (in feet)	Status
3	Groundwater	860	Active	7	Groundwater	870	Active
4	Groundwater	890	Active	8	Groundwater	889	Active
5	Groundwater	885	Active	9	Groundwater	905	Active
6	Groundwater	866	Active				

To obtain a summary of the source water assessment, please contact Andy Hirvela at (608) 837-5500.

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 storm water 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 storm water 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 storm water 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.

Disinfection Byproducts

Contaminant (units)	Site	MCL (max allow)	MCLG (goal)	Level Found	Test Result Range	Sample Date (if prior to 2021)	Violation	Typical Source of Contaminant
HAA5 (ppb)	TH2	60	60	2	2		NO	By-product of drinking water chlorination
TTHM (ppb)	TH2	80	0	3.2	3.2		NO	By-product of drinking water chlorination
HAA5 (ppb)	TH4	60	60	0	0		NO	By-product of drinking water chlorination
TTHM (ppb)	TH4	80	0	0	0		NO	By-product of drinking water chlorination

Radioactive Contaminants

Contaminant (units)	MCL (max allowed)	MCLG (goal)	Level Found	Test Result Range	Sample Date (if prior to 2021)	Violation	Typical Source of Contaminant
RADIUM, (226 + 228) (pCi/l)	5	0	1.9	0 - 1.9	3/24/20	NO	Erosion of natural deposits
GROSS ALPHA, excl R&U(pCi/l)	15	0	3.4	0.7 -3.4	3/24/20	NO	Erosion of natural deposits
GROSS ALPHA, incl R&U(n.a.)	n/a	n/a	3.8	0-3.8	3/24/20	NO	Erosion of natural deposits
COMBINED URANIUM (ug/l)	30	0	0.7	.4-.7	3/24/20	NO	Erosion of natural deposits

Inorganic Contaminants

Contaminant (units)	MCL (max allow)	MCLG (goal)	Level Found	Test Result Range	Sample Date (if prior to 2021)	Violation	Typical Source of Contaminant
ARSENIC (ppb)	10	n/a	0	0-0	3/24/20	NO	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
BARIUM (ppm)	2	2	.037	.012-.037	3/24/20	NO	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
CHROMIUM (ppb)	100	100	1	0-1	3/24/20	NO	Discharge from steel and pulp mills. Erosion of natural deposits
COPPER (ppm)	AL=1.3	1.3	.1300	0 of 30 results were above the action level.	9/23/20	NO	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
FLOURIDE	4	4	.7	.1-.7	3/24/20	NO	Erosion of natural deposits. Water additive which promotes strong teeth. Discharge from fertilizer/aluminum factories
LEAD (ppb)	AL=15	0	14.00	1 of 30 results were above the action level.	9/23/20	NO	Corrosion of household plumbing systems; Erosion of natural deposits
NICKEL (ppb)	100		1.8000	.58000-1.8000	3/24/20	NO	Nickel occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products.
NITRATE (N03-N) (ppm)	10	10	5.50	.14-5.80		NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Contaminant (units)	Action Level	MCLG (goal)	90 th percentile level found	# of results	Sample Date (if prior to 2021)	Violation	Typical Source of Contaminant
SELENIUM (ppm)	50	50	1	0 – 1	3/24/20	NO	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
SODIUM (ppm)	n/a	n/a	32.00	3.10-32.00	3/24/20	NO	n/a

Contaminants with a Health Advisory Level or a Secondary Maximum Contaminant Level

The following tables list contaminants which were detected in your water and that have either a Health Advisory Level (HAL) or a Secondary Maximum Contaminant Level (SMCL), or both. There are no violations for detections of contaminants that exceed Health Advisory Levels, Groundwater Standards or Secondary Maximum Contaminant Levels. Secondary Maximum Contaminant Levels are levels that do not present health concerns but may pose aesthetic problems such as objectionable taste, odor, or color. Health Advisory Levels are levels at which concentrations of the contaminant present a health risk.

Contaminant (units)	Site	SMCL (ppm)	HAL (ppm)	Level Found	Range	Sample Date (if prior to 2021)	Typical Source of Contaminant
CHLORIDE (ppm)		250		54.00	0.00 - 54.00	9/1/20	Runoff/leaching from natural deposits, road salt, water softeners
IRON (ppm)		0.3		0.06	0.00 - 0.06	9/1/20	Runoff/leaching from natural deposits, industrial wastes
MANGANESE (ppm)		0.05	0.3	0.00	0.00 - 0.00	9/1/20	Leaching from natural deposits
SILVER (ppm)		0.1	0.05	0.00	0.00 - 0.00	4/26/17	Runoff from industrial wastes
SULFATE (ppm)		250		25.00	5.60 - 25.00	3/24/20	Runoff/leaching from natural deposits, industrial wastes
ZINC (ppm)		5		0.01	0.00 - 0.01	4/26/17	Runoff/leaching from natural deposits, industrial wastes

Unregulated Contaminants

Unregulated Contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. EPA required us to participate in this monitoring.

PFAS Contaminants with a Recommended Health Advisory Level

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) are a large group of human-made chemicals that have been used in industry and consumer products worldwide since the 1950s. The following table list PFAS contaminants which were detected in your water and that have a Health Advisory Level (HAL). There are no violations for detections of contaminants that exceed recommended HAL. The Recommended Health Advisory Levels are levels at which concentrations of the contaminant present a health risk and are based on guidance provided by the Wisconsin Department of Health Services.

Contaminant (units)	Site	Recommended HAL (ppt)	Level Found	Range	Sample Date (if prior to 2021)	Typical Source of Contaminant
Perfluorohexanoic Acid-PFHxA (ppt)	4	70	1.34	0.0 – 1.34	7/4/2019	Drinking water is one way that people can be exposed to PFAS. In Wisconsin, two-thirds of people use groundwater as their drinking water source. PFAS can get into groundwater from places that make or use PFAS and releases from certain types of waste in landfills.

Volatile Organic Contaminants

Contaminant (units)	MCL (max allow)	MCLG (goal)	Level Found	Test Result Range	Sample Date(if prior to 2021)	Violation	Typical Source of Contaminant
TETRACHLOROETHYLENE (ppb)	5	0	1.2	0.5 - 1.4		NO	Leaching from PVC pipes; Discharge from factories and dry cleaners

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. Sun Prairie 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 www.epa.gov/safewater/lead.

Scientists are still learning about the health affects that various PFAS can have on the body. To date, studies among people that have high levels of certain PFAS can increase cholesterol levels, decrease antibody levels in response to vaccines, and decrease fertility in women. People can reduce their risk of health effects by reducing their exposure to PFAS.

Definition of Terms

Term	Definition
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAL	Health Advisory Level: The concentration of a contaminant, which, if exceeded poses a health risk and may require a system to post a public notice
Level 1 Assessment	A Level 1 assessment is a study of the water system to identify potential problems and determine, if possible, why total coliform bacteria have been found in our water system.
Level 2 Assessment	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine, if possible, why an E. coli MCL violation has occurred or why total coliform bacteria have been found in our water system, or both, on multiple occasions.
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.
MFL	million fibers per liter
MRDL	Maximum residual disinfectant level: 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.
MRDLG	Maximum Residual disinfectant level goal: 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.
mrem/year	millirems per year (a measurement of radiation absorbed by the body)
NTU	Nephelometric Turbidity Units
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)
ppt	parts per trillion, or nanograms per liter
ppq	parts per quadrillion, or pictograms per liter
TCR	Total Coliform Rule
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

OTHER COMPLIANCE

Monitoring Violations

Description	Contaminant Group	Sample Location	Compliance Period Beginning	Compliance Period Ending
Chem M/R - Reg - No Regular samples	Nitrate	4	7/1/2021	9/30/2021

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 noted in the above table, we did not complete all monitoring or testing for the contaminant(s) noted, and therefore cannot be sure of the quality of your drinking water during that time.

Samples were taken but not submitted to the State Lab according to protocol. The daily sample results show that the residuals were maintained within the desired range during that time.

Actions Taken

Monitoring/ reporting was a training session for all operators and the requirements and expectations were reviewed and set.



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