

EPA and Wisconsin Requirements for Racine's Drinking Water

Water delivered by RWU must be safe from microbes and chemical toxicity, and also from exposure to trace levels of chemicals over a lifetime of 80 years. Source water (Lake Michigan), treated finished water, distribution system water, and residential water throughout the city and surrounding communities are monitored for over 90 regulated contaminants. In 2025, the Racine Water Utility conducted over 50,000 in-house water quality analyses, along with hundreds of tests by contracted laboratories. The Water Quality Table, found on the reverse side of this brochure, lists substances tested by RWU during 2025 and preceding years. To ensure that tap water is safe, the EPA prescribes regulations that limit the trace amounts of certain contaminants in the water provided by public water systems. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

PFAS in Drinking Water

Per- and Polyfluoroalkyl Substances (PFAS) are widely used, long lasting chemicals, components of which break down very slowly in the natural environment. Scientific studies have shown that exposure to some PFAS may be linked to harmful health effects in humans. Racine Water Utility has sampled its finished water for PFAS numerous times, with results of all PFAS compounds below 2.0 ppt (parts per trillion). These results are slightly above the analytical limit of detection and below the EPA's National Primary Drinking Water Regulations (NPDWR) finalized in 2024. RWU will sample finished water for PFAS in 2026 as required by WDNR and US EPA. RWU will continue to monitor emerging research on PFAS, along with any federal or state guidance and regulations of the contaminants.

Lead in Drinking Water

Water that is too corrosive can dissolve lead and other contaminants from your home's plumbing fixtures. The Utility uses a corrosion control inhibitor to reduce our consumers exposure to lead and tests that treatment technique through the Lead and Copper Rule (LCR) regulation. Sampling for the LCR showed that RWU's 90th percentile for lead in 2025 was 3.3 ppb (parts per billion), significantly below the EPA's established 15 ppb action level. To see more details regarding lead and copper results, please refer to the 2025 Water Quality Table on the reverse side of this pamphlet. Results can also be found online through the WDNR at RACINE WATERWORKS (25200626) (wi.gov). In 2024, RWU transitioned corrosion control inhibitors based off of results from optimal corrosion control study conducted from 2020 to 2023, to help comply with future changes to the federal Lead and Copper Rule.

Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to the person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced, or reduced. It is possible that the lead levels in your home may be higher than at other homes in the area due to materials used in the construction of your home's plumbing system. If you are concerned about lead levels in your water (young children are more vulnerable to lead than adults), you may wish to have your water tested. Flushing your tap water for 30 seconds to 2 minutes prior to using the water is an effective method to reduce exposure to lead. Additional information is available from the Safe Drinking Water Hotline at (800) 426-4791.

Lead Service Line Replacement Program: The Utility has been assisting homeowners with lead service line removal since the fall of 2016, when it first began its Private Lead Service Line (LSL) Replacement Program. This work is ramping up in the coming years due to increased funding of \$40 million provided by WDNR. The City of Racine also passed an ordinance requiring homeowners to coordinate the replacement of lead service lines with the Utility, typically at the same time that the Utility is replacing water mains and lead services within the street. These lead replacements are performed at no cost to the property owner, though property owners must help coordinate the work. Funding is limited and efficient planning of replacement is needed, so only those property owners who are mailed an invitation qualify for the program. More information on lead service line replacement program can be found here: <https://www.leadfreeracine.com/>



Work will be performed in various parts of the city each year, with the goal of replacing every lead service by 2031, (image plan on front cover). Please be patient as work progresses, as it may be several years before you see our contractors working in your neighborhood. All residents and property owners will receive further information before work begins in their area. For more information about your water service, visit our Public Viewer Application at: <https://bit.ly/rwuservice>



Sources and Contaminants

Sources of drinking water include: rivers, lakes, streams, ponds, reservoirs, springs, aquifers, 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. It can also pick up substances resulting from the presence of animals or humans. Substances that can be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from wastewater treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can occur naturally or result from 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 occur naturally or result from oil and gas production, and mining activities.

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 found 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 for infections. These people should seek advice about drinking water from their healthcare providers. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Unregulated Contaminant Monitoring Rule

The U.S. EPA uses the Unregulated Contaminant Monitoring Rule (UCMR) to collect data for contaminants which currently do not have any health-based standards set under the Safe Drinking Water Act (SDWA). This testing program assists the EPA in determining occurrence of unregulated contaminants and whether future regulation is warranted. The UCMR program began in 2001, with RWU participating in every round due to being a large water system serving >100,000 people. Each round of UCMR monitors as many as 30 contaminants every 5 years. RWU will participate in UCMR6 starting in 2027. For more information visit the EPA website: <https://www.epa.gov/dwucmr>

UCMR5 Results: Sampled in 2023

Potential Contaminant Sampled For:	Results (pp)	Source:
29 PFAS Compounds	Not Detected	PFAS are a group of synthetic chemicals used in a wide range of consumer products and industrial applications including: non-stick cookware, water-repellent clothing, stain-resistant fabrics and carpets, cosmetics, firefighting foams, electroplating, and products that resist grease, water, and oil. PFAS are found in the blood of people and animals and in water, air, fish, and soil at locations across the United States and the world.
Lithium	Not Detected	Naturally occurring metal that may concentrate in brine waters; lithium salts are used as pharmaceuticals, used in electrochemical cells, batteries, and in organic syntheses.

Each quarter in 2023, Racine Water Utility's finished water was sampled for UCMR5 requirements. Results for all 29 PFAS compounds and lithium in each of the four quarters were below the minimum reporting level set by the U.S. EPA, (0.002-0.02 ppb) for the PFAS compounds and (9.0 ppb) for Lithium.

For a complete list of these chemicals, contact the Racine Water Utility at (262) 636-9534

Internet Information Sources

In addition to the numbers listed in other sections of this report, there are many governmental and water industry websites available on the internet providing information on water quality, regulations, water treatment and public health. Provided below are a number of these sites and web site addresses:

Organization	Web Address
United States Environmental Protection Agency	www.epa.gov
Wisconsin Department of Natural Resources	www.dnr.wi.gov
Wisconsin Public Service Commission	www.psc.wi.gov
American Water Works Association	www.awwa.org
Wisconsin Water Association	www.wiawwa.org
Rural Water Association	www.nrwa.org
National Sanitation Foundation	www.nsf.org

Racine Water Utility Contact Numbers:

Water Quality Concerns:

(262) 636-9441 or (262) 636-9534

Billing Questions: (262) 636-9181

Reporting Possible Water Main or Service Breaks: (262) 636-9185

Scheduling Service Appointments: (262) 636-9185 or (262) 636-9186

Visit us online at

www.cityofracine.org/Water

Para ayuda en español llame:

(262) 636-9171 de 8:00am-4:30pm

For an electronic version of this report go to: <https://cityofracinewi.gov/water/water-quality/water-consumer-confidence-reports/>



Racine Water Utility

100 Hubbard Street • Racine, WI 53402

Welcome to Racine's Drinking Water Consumer Confidence Report

This brochure is a snapshot of your residence's water quality provided last year. Included are the details about where your water comes from, what it contains, and how it compares to the Environmental Protection Agency (EPA) and State of Wisconsin standards.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

Dlaim ntawv tshaabzu nuav muaj lug tseemceeb heev nyob rua huv kws has txug cov dlej mej haus. Kwas ib tug paab txhais rua koj, los nrug ib tug kws paub lug thaam.

The Racine Water Utility's (RWU) water quality meets or exceeds all Federal and State drinking water quality standards. The Racine Water Utility operates a surface water membrane ultra-filtration treatment plant and employs 30 state certified waterworks operators. The Utility pays close attention to emerging research and our concerns about drinking water are always focused on the health and safety of you and your family.

Source of Racine's Drinking Water

Water delivered to Racine customers is treated and purified water drawn from Lake Michigan. The lake provides abundant, high quality water for many major cities along its shores. The Wisconsin Department of Natural Resources (WDNR) and EPA monitor source water protection across the state of Wisconsin, including Lake Michigan. As water flows over land surfaces and through rivers and lakes, natural and man-made substances can get into the water. These substances can be contaminants. Although the water treatment plant protects its customers from potentially adverse health effects due to contamination, the source water protection provides a first step guide for the community to implement preventative practices and limit contamination.

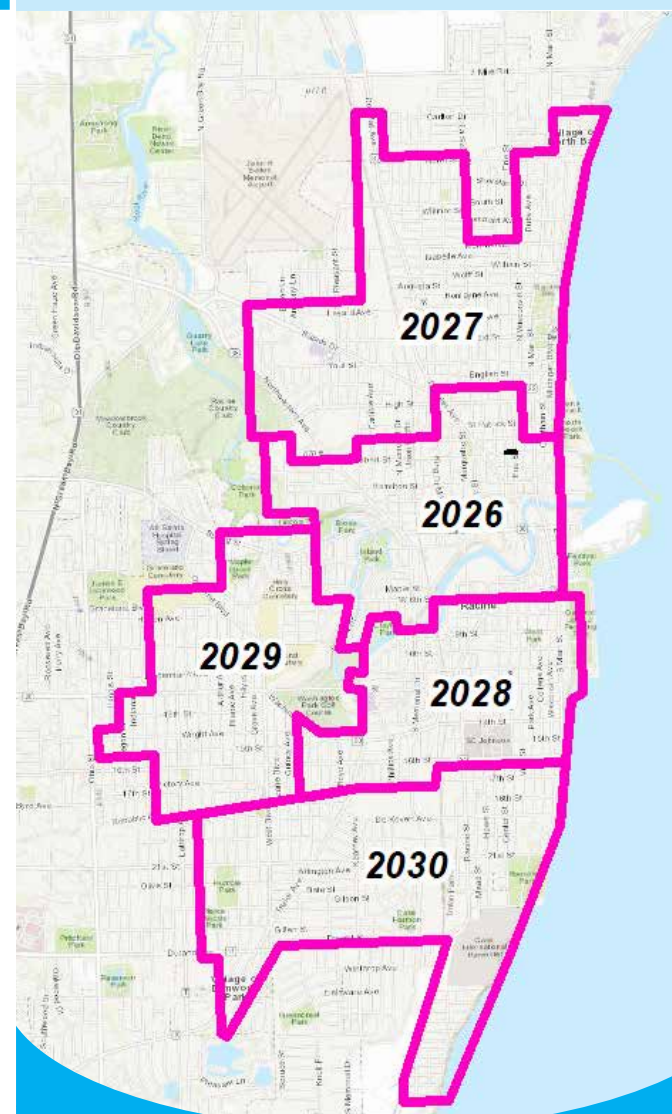
For more information go to: www.epa.gov/sourcewaterprotection

Public Invited

Racine Waterworks Commission Meetings are typically held the third Wednesday of the month, beginning at 6:00 PM. Meetings are held in-person at City Hall, Room 303 (unless notified otherwise). Please visit the City for Racine's Legislative Calendar for the most up to date information on the meetings, including agendas and minutes: cityofracine.legistar.com/Calendar.aspx

Meeting dates in 2026 are:

January 21st	July 15th
February 18th	August 19th
March 18th	September 16th
April 15th	October 21st
May 20th	November 18th
June 17th	December - No Meeting



Racine Water Utility 2025 Drinking Water Consumer Confidence Report



Racine Waterworks 2025 Water Quality Table

Your water is tested for many contaminants every year. The following table lists all the detected and non-detected contaminants tested for in 2025 and preceding years. RWU is allowed to monitor for some contaminants less frequently than once per year. Those results are also found in the table below and must be reported for the previous 5 years if not tested in the preceding year.

MICROBIOLOGICAL RESULTS (SAMPLED IN 2025)

Contaminant	MCLG	MCL	Highest Monthly	Violation	Major Source
Total Coliform Bacteria	0	< 5%/month	0.88%	No	Human and animal fecal waste
Viruses and Legionella	0	TT			Found naturally in water, human and animal fecal waste and multiplies in heating systems

PRIMARY REGULATED INORGANIC RESULTS (SAMPLED IN 2025)

Contaminant	MCLG	MCL	Results (Range)	Violation	Major Source
Asbestos (million fibers per liter) (sampled in 2020)		7	<0.20	No	Decay of asbestos cement in water mains; erosion of natural deposits
Antimony (ppb)	6	6	<0.32	No	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder
Arsenic (ppb)	10	10	1.1	No	Erosion of natural deposits
Barium (ppb)	2000	2000	18	No	Erosion of natural deposits
Beryllium (ppb)		4	< 0.06	No	By-product of industrial processes
Cadmium (ppb)		5	< 0.12	No	By-product of industrial processes, erosion of natural deposits
Chromium (ppb)		100	<1.1	No	Erosion of natural deposits
Cyanide (ppb) (sampled in 2023)		200	<11	No	By-product of industrial, mining, and metal finishing processes
Mercury (ppb)		2	< 0.047	No	Erosion of natural deposits
Nickel (ppb)		100	0.76	No	Erosion of natural deposits
Nitrate (ppm)	10	10	0.36	No	Runoff from fertilizer use, leaching from septic tanks, sewage. Erosion of natural deposits
Nitrite (ppm)	1	1	<0.016	No	Runoff from fertilizer use, leaching from septic tanks, sewage
Selenium (ppb)		50	3.2	No	Erosion of natural deposits
Sulfate (ppm)		250	22	No	Runoff/ leaching from natural deposits, industrial wastes
Thallium (ppb)		2	< 0.76	No	Erosion of natural deposits
Fluoride (ppm)		4	Average: 0.70 Range 0.65 - 0.78	No	Water additive which promotes strong teeth, erosion of natural deposits, discharge from fertilizer and aluminum factories
pH		6.5 - 8.5	Average: 7.68 Range 7.45 - 8.01	No	Erosion of natural deposits
Chlorine Residual (ppm)	4.0	4.0	Average: 1.28 Range 1.10 - 1.48	No	Water additive for disinfection

DISINFECTION BY-PRODUCTS - DISTRIBUTION (SAMPLED 4 SITES IN 2025)

Contaminant	MCLG	MCL	Results	Violation	Major Source
TTHM (ppb) (<i>total trihalomethanes</i>)	0	80	34.8 (15 - 61)	No	By-product of drinking water chlorination
HAA (ppb) (<i>haloacetic acids</i>)	0	60	16.8 (8 - 26)	No	By-product of drinking water chlorination

ORGANIC COMPOUND RESULTS (SAMPLED IN 2023)

Contaminant	MCLG	MCL	Results	Violation	Major Source
Volatil Organic Compounds					
Bromodichloromethane (ppb)	0	80	6.1	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Bromoform (ppb)	0	80	0.37	No	
Chloroform (ppb)	0	80	8.4	No	
Dibromochloromethane (ppb)	0	80	3.2	No	
37 other compounds were tested with no detection of any of these chemicals					
Synthetic Organic Compounds					
Atrazine (ppb)	3	3	0.024, 0.024	No	Storm run-off from agriculture pesticide application
Metolachlor (Dual) (ppb)	NA	NA	0.011, <0.0065	No	
41 other compounds were tested with no detection of any of these chemicals					
PFAS (sampled in 2022 and 2023)	MCL individually or combined		Results		
Perfluorooctanic Acid-PFOA (ppt)	70		1.73, 2.0	No	By-product of industrial process, food packaging, commercial household products
Perfluorooctane Sulfonic Acid-PFOS (ppt)	70		1.64, 2.0	No	

LEAD AND COPPER RESULTS (SAMPLED IN 2025 at Residential Water Taps)

Contaminant	No. of sites Exceeding A.L.	MCLG	Action Level	90% Level/ Violation	Major Source
Copper (ppm)	0 out of 101	1.3	A.L.=1.3	0.27 / No	Corrosion of household plumbing systems, erosion of natural deposits
Lead (ppb)	0 out of 101	0	A.L.=15	3.3 / No	Corrosion of household plumbing systems, erosion of natural deposits

TURBIDITY AND PARTICULATE RESULTS (SAMPLED IN 2025)

Contaminant	MCLG	MCL	Results	Violation	Major Source
Turbidity (NTU)	na	TT Never > 1 NTU, and 95% of time < 0.3 NTU	Sand Filtration Max = 0.468 NTU TT Never >1 Membrane Filtration Max = 0.115 NTU 100% time <0.3 NTU	No	Soil runoff, suspended matter in source water

Next to disinfection of the water, the most important purification process is the removal of suspended particles. Particulate matter in the water may be disease causing micro-organisms or can provide hiding places for micro-organisms to escape disinfection chemicals. Turbidity is the measurement of water clarity. Water systems must meet clarity standards as listed in the above table. The RWU filters the treated water first through sand filters, and re-filters the water through membrane filters. The RWU's maximum turbidity for water leaving the treatment plant for 2025 was 0.115 NTU, well below the established maximum allowed levels, and the turbidity was below 0.3 NTU 100% of the time. In 2025, the daily average peak turbidity was 0.033 NTU for water leaving the treatment plant.

Cryptosporidium (Sampled 2015 -2017)	0	Treatment Technique	0 oocysts/liter	No	Human and animal feces
Giardia (Sampled 2015 – 2017)	0	Treatment Technique	0 cysts/liter	No	Human and animal feces

If turbidity maximum contaminant levels are met, the system is deemed in compliance in treating for cryptosporidium and giardia.

RADIOLOGICAL RESULTS (SAMPLED IN 2020)

Contaminant	MCLG	MCL	Results	Violation	Major Source
Gross Alpha Emitters (pCi/l)	0	15	0.494	No	Erosion of natural deposits
Combined Radium (pCi/l)	0	5	0.837	No	Erosion of natural deposits
Uranium (ppb)	0	30	0.347	No	Erosion of natural deposits

SECONDARY OR UNREGULATED CONTAMINANT RESULTS (SAMPLED IN 2025)

Contaminant	MCLG	MCL	Results (Range)	Violation	Major Source
Alkalinity (ppm)	na	na	112 (106 - 119)	No	Erosion of natural deposits
Sodium (ppm)	na	na	9.4	No	Erosion of natural deposits
Silica/Silicate (ppm) (Sampled in 2019)	na	na	2.7	No	Erosion of natural deposits
Ortho-phosphate (ppm)	na	na	2.00 (1.78-2.22)	No	Erosion of natural deposits, addition of chemical in water treatment
Total Organic Carbon (ppm) (Lake Water)	na	na	2.10 (1.7 - 2.5)	No	Decay of natural and man-made deposits
Water Temperature °F	Annual Average: 49.3			Annual Range: 33.4 - 74.8	

WATER QUALITY CORROSION PROGRAM MONITORING RESULTS (SAMPLED AT 26 SITES IN 2022)

Contaminant	MCLG	MCL	Results (Range)	Violation	Major Source
Calcium (ppm)	na	na	35 (34-37)	No	Erosion of natural deposits
Hardness (ppm)	na	na	140	No	Erosion of natural deposits
Chloride (ppm)		250	17 (17-18)	No	Erosion of natural deposits
Manganese (ppm)		0.05	<0.0020	No	Erosion of natural deposits, addition of chemical in water treatment
Iron (ppm)	na	0.30	<0.063	No	Erosion of natural deposits
Aluminum (ppm)		0.05 - 0.20	<0.024	No	Erosion of natural deposits, addition of chemical in water treatment
Sulfate (ppm)	na	250	21	No	Erosion of natural deposits
Conductivity (umho/cm)	na	na	315 (304-328)	No	Erosion of natural deposits

How to read the water quality table: Use the definitions here to understand what the scientific data means for your drinking water: The **Compliance Level** may be the substance's highest level detected in the water or an average concentration of all samples tested, depending on the regulation for the substance. If multiple samples were tested in 2025, the lowest and highest detected values are listed under **Range of Detections**. Regulated substances have **Maximum Contaminant Levels (MCLs)** set by the EPA. This is the highest level of the substance legally allowed in drinking water. Some contaminants also have a **Maximum Contaminant Level Goals (MCLGs)**. This is the level of a substance where there is no known or expected health risk. MCLGs allow for a margin of safety. MCLs are set as close to MCLGs as practical using the best available water treatment processes. Monitoring for unregulated contaminants is also conducted.

Although these are substances that do not have MCLs, the EPA evaluates them when assessing future drinking water regulations. The MCL for lead and copper is known as the **Action Level (AL)**. This is the concentration of a contaminant which a water system must follow. For compliance, 90% of all samples tested must be below the Action Level. Turbidity is a measurement of water clarity, used to evaluate the effectiveness of the filtration system. One criterion for enforcement of the turbidity regulation is **Treatment Technique (TT)**. This is a water treatment process that is required by the EPA to reduce the level of turbidity in the water. **The Unit of Measurement** reported for each substance depends on the nature of analytical measurement and the amount of the substance detected. Listed below are the abbreviations for these units.

ppm: parts per million or milligrams per liter
ppb: parts per billion or micrograms per liter
ppt: parts per trillion or nanograms per liter
pCi/l: picocuries per liter, a measure of radioactivity
NTU: nephelometric turbidity units
umho/cm: micromhos per centimeter

For a more comprehensive water quality parameter list, please contact the Racine Water Utility or visit us at: <https://cityofracinewi.gov/water/>