

Annual Drinking Water Quality Report



Public Participation Opportunities

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The Village Board meets on the second and fourth Tuesday each month at 7 pm.

You can also contact William Cerney Jr., Operator in Charge
Call (815) 553-2322 ext. 302

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (815) 553-2322 ext. 302 - para hablar con una persona bilingüe en español.

2023 Annual Water Quality Report

Consumer Confidence Report

Shorewood Public Water System ID: IL1975080

The Village of Shorewood is pleased to share the 2023 Consumer Confidence Report with you. This report is a summary of the quality of the water we provide our customers. The analysis covers January 1 to December 31, 2023.

The water tests are required by the Environmental Protection Agency (EPA) and are presented in the attached pages. We hope this information helps you become more knowledgeable about what is in your drinking water

What is the source of my water?

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.

Where does Shorewood get its drinking water?

The source of drinking water used by the Village of Shorewood is ground water.

Source Name		Type of Water	Report Status	Location
Well 4 (20353)	W OF RT59 AT 24121	GW	OPER	Riverbrook Estates
Well 5 (00641)	1/4 MI W RT 59 2 1/2 MI N	GW	OPER	Prairie Trail Subdivision
Well 6 (00751)	1/4 MI W Rt 59 2 MI N	GW	OPER	Prairie Trail Subdivision
Well 7 (01078)	LOT 91 OF PRAIRIE TRAIL	GW	OPER	Prairie Trail Subdivision
Well 8 (01778)	WATER SUPPLY WELL NO. 8	GW	OPER	MOUND RD. APPROX. 2,200' E. OF COUNTY LINE RD.
Well 9 (01822)	WATER SUPPLY WELL NO. 8	GW	OPER	MOUND RD. APPROX. 2550 FT WEST OF RIVER RD. NW 1/4 OF NE 1/4, S29, T35N, R9E, 3RD PM

Source Water Assessment

Based on information obtained in a Well Site Survey Report published in 1991 by the Illinois EPA, five potential sources or possible problem sites were identified within the survey area of Shorewood's wells.

Furthermore, information provided by the Leaking Underground Storage Tank Section of the Illinois EPA indicated several additional sites with ongoing remediation's which may be of concern. The Illinois EPA has determined that the source water produced from Shorewood Wells #4, #5, #6 and #7 is not susceptible to contamination. This determination is based on a number of criteria including; monitoring conducted at the wells; monitoring conducted at the entry point to the distribution system; and the available hydrogeological data on the wells.

Why are there contaminants in my water?

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

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 which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Do I need to take any special precautions?

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 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 lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

How can I become actively involved?

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by The Village of Shorewood Public Works Facility or call our water operator at (815) 532-2322. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.



Definitions

To help you better understand the terms used in these tables, we have provided the following definitions:

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

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 and/or why total coliform bacteria have been found in our water system on multiple occasions.

Maximum Contaminant Level or MCL: 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.

Maximum Contaminant Level Goal or MCLG: 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.

Maximum residual disinfectant level or 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 or 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.

na: Not applicable.

mrem: millirems per year (a measure of radiation absorbed by the body)

ppb: micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water.

ppm: milligrams per liter or parts per million – or one ounce in 7,350 gallons of water.

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



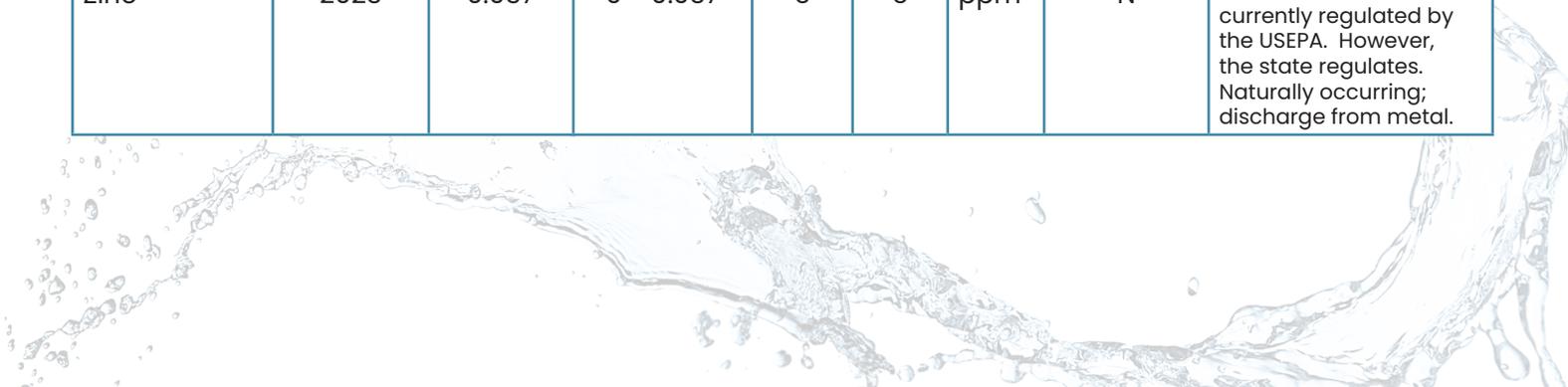
2023 Regulated Contaminants Detected

Disinfectants and Disinfection By-Products

Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2023	1.4	1.3 - 1.4	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2023	1	0 - 1.08	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2023	8	6.89 - 8.16	No goal for the total	80	ppb	N	By-product of drinking water disinfection.

Inorganic Contaminants

Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2023	0.066	0.05 - 0.066	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2023	1.07	0.601 - 1.07	4	4	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Iron	2023	0.3	0.17 - 0.32		1	ppm	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Manganese	2023	12	5.9 - 12	150	150	ppb	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Sodium	2023	70	60 - 70			ppm	N	Erosion from naturally occurring deposits. Used in water softener regeneration.
Zinc	2023	0.037	0 - 0.037	5	5	ppm	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Naturally occurring; discharge from metal.



Radioactive Contaminants

Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2023	2	1.589 - 1.589	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2023	3	2.98 - 2.98	0	15	pCi/L	N	Erosion of natural deposits.

Lead and Copper

Contaminant	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	06/17/2021	1.3	1.3	0.85	1	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	06/17/2021	0	15	3	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Special Lead and Copper Notice:

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. We 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 <http://www.epa.gov/safewater/lead>.

Unregulated Contaminants

Unregulated Contaminant	Collection Date	Highest Level Detected	Range of Levels Detected	MRL	Units	Violation	Likely Source of Contamination
Lithium	02/26/2023	27.9	17.3 - 27.9	9.0	ug/L	N	Lithium is a naturally occurring metal in the Earth's crust.
PFAS	02/26/2023	<MRL	<MRL	.002 - .02	ug/L	N	Fire Extinguishing Foam and Others.

Special Notice for Availability of Unregulated Contaminant Monitoring Data:

Our water system has sampled for a series of unregulated contaminants. Unregulated contaminants are those that don't yet have a drinking water standard set by EPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard. As our customers, you have a right to know that these data are available. If you are interested in examining the results, please contact the Village of Shorewood Public Works at (815) 553-2321 or by mail, 25914 W. Mound Rd. Shorewood, IL 60404.

MRL = Minimum Reporting Level

Violations

During the 2023 Calendar year, we had the below noted violations of drinking water regulations:

Consumer Confidence Rule (CCR) <i>The Consumer Confidence Rule requires community water systems to prepare and provide to their customers annual consumer confidence reports on the quality of their local drinking water quality.</i>	
Violation Type	CCR ADEQUACY/AVAILABILITY/CONTENT
Violation Begin	12/03/2023
Violation End	2023
Violation Explanation	We failed to provide to you, our drinking water customers, an annual report that adequately informed you about the quality of our drinking water and the risks from exposure to contaminants detected in our drinking water. Please see below, "Violation Explanations Clarified".

Violation Explanations Clarified

CCR Adequacy: Non-bill paying customers were provided 2022 CCR brochures, but the responsible operator failed to verify this when completing the CCR Certification form to IEPA.

CCR Adequacy: Disinfection bi-product and Zink data were inadvertently omitted by the printer in the 2022 CCR brochure. **No excursions in lab tests.**

Haloacetic Acids (HAA5) <i>Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.</i>	
Violation Type	MONITORING, ROUTINE (DBP), MAJOR
Violation Begin	01/01/2023
Violation End	12/31/2023
Violation Explanation	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. Please see below, "Violation Explanations Clarified".

Violation Explanations Clarified

Monitoring Violation HAA5: The 2023 sample was collected 27 days after the IEPA required sample period of 1/1/2023 – 3/31/2023. **No excursions in lab tests.**

Total Trihalomethanes (TTHM) <i>Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.</i>	
Violation Type	MONITORING, ROUTINE (DBP), MAJOR
Violation Begin	01/01/2023
Violation End	12/31/2023
Violation Explanation	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated. Please see below, "Violation Explanations Clarified".

Violation Explanations Clarified

Monitoring Violation TTHM: The 2023 sample was collected 27 days after the IEPA required sample period of 1/1/2023 – 3/31/2023. **No excursions in lab tests.**