

Village of Worth

Annual Drinking Water Quality Report

For the Period January 1 to December 31, 2023

Consumer Confidence Report (CCR) - 2024

WORTH
IL0313360

This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.

The source of drinking water used by WORTH is Purchased Surface Water.

For more information regarding this report contact:

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Phone 708-448-4256

Regularly scheduled Board Meetings are held on the 1st and 3rd Tuesday of each month.

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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.

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.

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.

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).

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>.

Source Water Assessment

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 schedule 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 City Hall or call our water operator at (708) 448-4256. To view a summary version of the completed 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>.

The Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection only dilution. This is the reason for mandatory treatment for all surface water supplies in Illinois. Chicago's offshore intakes are located at a distance that shoreline impacts are not usually considered a factor on water quality. At certain times of the year, however, the potential for contamination exists due to wet-weather flows and river reversals. In addition, the placement of the crib structures may serve to attract waterfowl, gulls and terns that frequent the Great Lakes area, thereby concentrating fecal deposits at the intake and thus compromising the source water quality. Conversely, the shore intakes are highly susceptible to storm water runoff, marinas and shoreline point sources due to the influx of groundwater to the lake.

Source Water Information

| Source Water | Type of Water | Report Status | Location |
|--|---------------|---------------|--------------------|
| CC 01-MASTER METER FF IL0316000 TP02: LAKE | SW | _____ | 10934 SOUTH NEENAH |

2023 Regulated Contaminants Detected

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is not known or expected risk to health. ALGs allow for a margin of safety.

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

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|-----------------|--------------|------|-------------------|-----------------|-----------------|-------|-----------|---|
| Copper | 2023 | 1.3 | 1.3 | 0.046 | 0 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 2023 | 0 | 15 | 1.4 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

Water Quality Test Results

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 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 residual disinfectant level goal of 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.

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.

Definitions: The following tables contain scientific terms and measures, some of which may require explanation.

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

n/a: not applicable.

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

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

Regulated Contaminants

| Disinfectants and Disinfection by-products | Collection Date | Highest Level Detected | Range of Levels Detected | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|--|-----------------|------------------------|--------------------------|-----------------------|----------|-------|-----------|--|
| Chlorine | 12/31/2023 | 1.0 | 0.8 - 1.1 | MRDLG = 4 | MRDL = 4 | ppm | N | Water additive used to control microbes. |
| Haloacetic Acids (HAA5) * | 2023 | 18 | 5.71 - 34.3 | No goal for the total | 60 | ppb | N | By-product of drinking water disinfection. |
| Total Trihalomethanes (TTHM) * | 2023 | 32 | 18.2 - 54.3 | No goal for the total | 80 | ppb | N | By-product of drinking water disinfection. |

2023 Violation Summary Table

| Lead and Copper Rule | | | |
|---|-----------------|---------------|---|
| The lead and Cooper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials. | | | |
| Violations Type | Violation Begin | Violation End | Violation Explanation |
| FOLLOW-UP OR ROUTINE TAP M/R (LCR) | 0/01/2023 | 02/27/2024 | 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. |

2023 Water Quality Data

~Definition of Terms~

Maximum Contaminant Level Goal (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 Contaminant Level (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 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 disinfectants to control microbial contaminants.

Maximum Residual Disinfectant Level (MRDL): The highest level of a drinking water disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Highest Level Detected: This column represents the highest single sample reading of a contaminant of all the samples collected in 2009.

Range of Detections: This column represents a range of individual sample results from lowest to highest that were collected during the CCR calendar year.

Date of Sample If a date appears in this column, the Illinois EPA requires monitoring for this contaminant less than once per year because the concentrations do not frequently change. If no date appears in the column, monitoring for this contaminant was conducted during the Consumer Confidence Report calendar year.

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

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

ND: Contaminant Not Detected at or above the reporting or testing limit.

N/A: Not applicable.

- Unit of Measurement -

ppm: Parts per million, or milligrams per liter

ppb: Parts per billion, or micrograms per liter

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water

%≤0.3 NTU: Percent samples less than or equal to 0.3 NTU

pCi/L: Picocuries per liter, used to measure radioactivity

Violation Table

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

| Violation Type | Violation Begin | Violation End | Violation Explanation |
|----------------------------|-----------------|---------------|---|
| LEAD CONSUMER NOTICE (LCR) | 12/30/2021 | 02/01/2022 | We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results. |

Detected Contaminants

Turbidity Data

| Contaminant (unit of measurement) Typical Source of Contaminant | MCLG | MCL | Highest Level Detected | Range of Detections | Violation | Date of Sample |
|--|------|---------------------------------|----------------------------|---------------------|-----------|----------------|
| TURBIDITY (NTU/Lowest Monthly % \leq 0.3 NTU) Soil runoff | N/A | TT (Limit 95% \leq 0.3NTU) | (Lowest Monthly %) 100% | 100% - 100% | | |
| TURBIDITY (NTU/Highest Single Measurement) Soil runoff | N/A | TT(Limit 1 NTU) | 0.25 | N/A | | |

Inorganic Contaminants

| Contaminant (unit of measurement) Typical Source of Contaminant | MCLG | MCL | Highest Level Detected | Range of Detections | Violation | Date of Sample |
|---|------|-----|------------------------|---------------------|-----------|----------------|
| BARIUM (ppm) Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. | 2 | 2 | 0.0195 | 0.0192 - 0.0195 | | |
| NITRATE (AS NITROGEN) (ppm) Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. | 10 | 10 | 0.33 | 0.29 - 0.33 | | |
| TOTAL NITRATE & NITRITE (AS NITROGEN) (ppm) Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. | 10 | 10 | 0.33 | 0.29 - 0.33 | | |

Total Organic Carbon

| Contaminant (unit of measurement) Typical Source of Contaminant | MCLG | MCL | Highest Level Detected | Range of Detections | Violation | Date of Sample |
|--|--|-----|------------------------|---------------------|-----------|----------------|
| TOC [TOTAL ORGANIC CARBON] | The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section. | | | | | |

Unregulated Contaminants

| Contaminant (unit of measurement) Typical Source of Contaminant | MCLG | MCL | Highest Level Detected | Range of Detections | Violation | Date of Sample |
|--|------|-----|------------------------|---------------------|-----------|----------------|
| SODIUM (ppm) Erosion of naturally occurring deposits; Used as water softener | N/A | N/A | 8.71 | 8.43 - 8.71 | | |
| SULFATE (ppm) Erosion of naturally occurring deposits | N/A | N/A | 27.8 | 25 - 27.8 | | |

State Regulated Contaminants

| Contaminant (unit of measurement) Typical Source of Contaminant | MCLG | MCL | Highest Level Detected | Range of Detections | Violation | Date of Sample |
|--|------|-----|------------------------|---------------------|-----------|----------------|
| FLUORIDE (ppm) Water additive which promotes strong teeth | 4 | 4 | 0.74 | 0.66 - 0.74 | | |

2023 Water Quality Data Table Footnotes

TURBIDITY

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

UNREGULATED CONTAMINANTS

A maximum contaminant level (MCL) for this contaminant has not been established by either state or federal regulations, nor has mandatory health effects language. The purpose of monitoring this contaminant is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water, and whether future regulation is warranted.

FLUORIDE

Fluoride is added to the water supply to help promote strong teeth. The Illinois Department of Public health recommends an optimal fluoride range of 0.9 mg/l to 1.2 mg/l.

SODIUM

There is no state or federal MCL for sodium. Monitoring is required to provide information to consumers and health officials who have concerns about sodium intake due to dietary precautions. If you are on a sodium-restricted diet, you should consult a physician about the level of sodium in the water.

Unit of Measurement

ppm - Parts per million, or milligrams per liter

ppb - Parts per billion, or micrograms per liter

NTU - Nephelometric Turbidity Unit, used to measure cloudiness in drinking water

%_≤0.3 NTU - Percent of samples less than or equal to 0.3 NTU

pCi/L - Picocuries per liter, used to measure radioactivity

Water Conservation

One of the biggest offenders in the home for water waste is the toilet, accounting for approximately 26.7% of the water used daily inside the house. By switching to the high-efficiency models of toilets, homeowners can make a huge dent in this number. These toilets are designed, tested and proven to take care of business with very little water. Some models actually use less than one gallon per flush.

Showers are another area in the home where water is wasted, responsible for about 16.8% of household daily water usage. Switching your shower head to a high efficiency model and shortening the time you are in the shower can help reduce water usage.

How about that dripping faucet you keep meaning to fix? Faucet use adds up to 15.7% of a household's daily water usage. Did you know that simply by installing aerators on your bathroom and kitchen faucets can save you up to a gallon of water per minute, per faucet?

In addition to those obvious sink leaks, there are less obvious leaks lurking in your home, wasting your precious water. The easiest of these leaks to detect on your own is a leaky flapper in your toilet. Here's a test: open the tank of your toilet and put in a few drops of food coloring. Replace the tank lid and wait a good 5-10 minutes or so. When the time is up, check the bowl of the toilet. If any color has made its way down into the bowl, you have a leaky flapper. Unfortunately, this means that your toilet is wasting water. Fortunately, replacing the flapper on your toilet is an easy fix. Simply take the model name and date of manufacture of your toilet (stamped inside the tank) to your local hardware supply store and they will help you find a replacement flapper.





Village of Worth

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Worth, IL 60482

CITY OF CHICAGO, DEPARTMENT OF WATER MANAGEMENT SOURCE WATER ASSESSMENT SUMMARY FOR THE 2023 CONSUMER CONFIDENCE REPORT (CCR)

Source Water Location

The City of Chicago utilizes Lake Michigan as its source water via two water treatment plants. The Jardine Water Purification Plant serves the northern areas of the City and suburbs, while the South Water Purification Plant serves the southern areas of the City and suburbs. Lake Michigan is the only Great Lake that is entirely contained within the United States. It borders Illinois, Indiana, Michigan, and Wisconsin, and is the second largest Great lake by volume with 1,180 cubic miles of water and third largest by area.

Source Water Assessment Summary

The Illinois EPA implemented a Source Water Assessment Program (SWAP) to assist with watershed protection of public drinking water supplies. The SWAP inventories potential sources of contamination and determined the susceptibility of the source water to contamination. The Illinois EPA has completed the Source Water Assessment Program for our supply. Further information on our community water supply's Source Water Assessment Program is available by calling DWM at 312-742-2406 or by going online at <http://dataservices.epa.illinois.gov/swap/factsheet.aspx>

Susceptibility to Contamination

The Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection only dilution. This is the reason for mandatory treatment of all surface water supplies in Illinois. Chicago's offshore intakes are located at a distance that shoreline impacts are not usually considered a factor on water quality. At certain times of the year, however, the potential for contamination exists due to wet-weather flows and river reversals. In addition, the placement of the crib structures may serve to attract waterfowl, gulls and terns that frequent the Great Lakes area, thereby concentrating fecal deposits at the intake and thus compromising the source water quality. Conversely, the shore intakes are highly susceptible to storm water runoff, marinas and shoreline point sources due to the influx of groundwater to the lake.

Further information on our community water supply's Source Water Assessment Program is available by calling the City of Chicago, Department of Water Management at 312-742-2406 or by going online at <http://dataservices.epa.illinois.gov/swap/factsheet.aspx>

2023 VOLUNTARY MONITORING

The City of Chicago has continued monitoring for Cryptosporidium, Giardia and E. Coli on its source water as part of its water quality program. No Cryptosporidium or Giardia was detected in source water samples collected in 2023. Treatment processes have been optimized to provide effective barriers for removal of Cryptosporidium Oocysts and Giardia cysts in the source water, effectively removing these organisms in the treatment process. By maintaining low turbidity through the removal of particles from the water, the possibility of Cryptosporidium and Giardia organisms getting into the drinking water system is greatly reduced. In 2023, CDWM has also continued monitoring for hexavalent chromium, also known as chromium-6. USEPA has not yet established a standard for chromium-6, a contaminant of concern which has both natural and industrial sources. Please address any questions or concerns to DWM's Water Quality Division at 312-744-8190. Data reports on the monitoring program for chromium-6 are posted on the City's website which can be accessed at the following address below:
http://www.cityofchicago.org/city/en/depts/water/supp_info/water_quality_resultsandreports/city_of_emergincontaminantstudy.html

For more information, please contact
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