

The Village of Maryville's 2024 Annual Drinking Water Report

Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

Do I need to take 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

Your source water comes from the following ground water sand and gravel wells. These wells are located in the American Bottoms Aquifer.

Well 1 (60131) Active

Well 2 (60132) Capped and sealed

Well 3 (60131) Active

Well 4 (01604) Active

Well 5 (WL02117) Active

Source water assessment and its availability

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 a small amount 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 or by going to their website at, <https://www.epa.gov/ground-water-and-drinking-water-information> In order to ensure that tap water is safe to drink; EPA prescribes regulations which limit the number 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.

Why are there contaminants in my drinking 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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791). 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: microbial contaminants, such as viruses and bacteria, that 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; and 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 number of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I get involved?

If you would like more information of possible contaminants and their health effects, you can call the Safe Drinking Water Hotline, or go the following website, <https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations>

Description of Water Treatment Process

Your water is treated by filtration and disinfection. Filtration removes particles suspended in the source water. Particles typically include clays and silts, natural organic matter, iron and manganese, and microorganisms. Your water is also treated by disinfection. Disinfection involves the addition of chlorine or other disinfectants to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

Water Conservation Tips

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference - try one today and soon it will become second nature.

Take short showers - a 5-minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.

Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.

Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.

Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.

Water plants only when necessary.

Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.

Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.

Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!

Visit www.epa.gov/watersense for more information.

PFAS

In 2020, our Public Water Supply was sampled as part of the State of Illinois PFAS Statewide Investigation.

Eighteen PFAS compounds were sampled, and all detections were below the health advisory level in our finished drinking water. For more information about PFAS health advisories, please visit the following link.

<https://epa.illinois.gov/topics/water-quality/pfas/pfas-healthadvisory.html>

UCMR5 Detections (PFAS and Lithium)

We are pleased to confirm that our water system participated in the EPA's Fifth Unregulated Contaminant Monitoring Rule (UCMR5) sampling in 2024. All sample results were below the EPA's reporting level, indicating no detections above the threshold levels for the monitored contaminants. More info on UCMR5 can be found at the following link.

<https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule#qanda>

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

Eliminate excess use of lawn and garden fertilizers and pesticides - they contain hazardous chemicals that can reach your drinking water source.

Pick up after your pets.

If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.

Dispose of chemicals properly; take used motor oil to a recycling center. Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit the Watershed Information Network's How to Start a Watershed Team.

Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste - Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

Additional Information for Lead

Your water system inventory does not include lead service lines.

In 2024, the Village of Maryville conducted a comprehensive survey of its water distribution system to identify the presence of lead service lines. Several methods were employed in this effort, including hydro-excavation for direct inspection, analysis of the construction year of homes and installation dates of service lines and review of historical records. In addition to these methods, we also distributed surveys to all customers, posted the survey on the village website, and mailed flyers with QR codes to facilitate easy identification of the service lines. These combined approaches helped ensure a thorough and accurate assessment of potential lead service line locations throughout the village.

The link below will take you directly to the service line material inventory.

<https://www.vil.maryville.il.us/DocumentCenter/View/2339/Current-Lead-Service-Line-Sheet---8-8-24>

The most recent lead tap samples can be found on drinking water watch at the following link.

https://water.epa.state.il.us/dww/JSP/NonTcrSamples.jsp?tinwsys_is_number=717347&tinwsys_st_code=IL&tsaanlyt_is_number=25&tsaanlyt_st_code=HQ&history=1&counter=0

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. MARYVILLE is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact MARYVILLE (Public Water system Id: IL1190750) by calling 618-345-4197 or emailing waterplant@maryville-il.us. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we

detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

| Contaminants | MCLG or MRDLG | MCL, TT, or MRDL | Average level in your Water | Range | | Sample Date | Violation | Typical Source | |
|---|---------------------|------------------------|--------------------------------------|-------|-------|------------------------|-------------|---|----------------|
| | | | | Low | High | | | | |
| Disinfectants & Disinfection By-Products | | | | | | | | | |
| (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) | | | | | | | | | |
| Chlorine (as Cl2) (ppm) | 4.0 | 4.0 | 1.24 | 1.03 | 1.45 | 2024 | No | Water additive used to control microbes | |
| Halo-acetic Acids (HAA5) (ppb) | NA | 60 | 4.4 | 3.8 | 5.0 | 2024 | No | By-product of drinking water chlorination | |
| TTHMs [Total Trihalomethanes] (ppb) | NA | 80 | 25.0 | 20.1 | 29.9 | 2024 | No | By-product of drinking water disinfection | |
| Inorganic Contaminants | | | | | | | | | |
| Fluoride (ppm) | 4 | 4 | 0.72 | 0.61 | 0.84 | 2024 | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories | |
| Nitrate [measured as Nitrogen] (ppm) | 10 | 10 | 2.75 | NA | NA | 2024 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits | |
| Selenium (ppb) | 50 | 50 | 3 | NA | NA | 2024 | No | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines | |
| Manganese (ppb) | 50 | 150 | 16 | 1 | 21 | 2024 | No | This contaminant is not currently regulated by the US EPA. However the state regulates erosion of natural deposits. | |
| Sodium (ppm) | NA | 500 | 205.1 | 205.1 | 205.1 | 2024 | No | Erosion of natural deposits; Leaching | |
| Microbiological Contaminants | | | | | | | | | |
| Total Coliform (RTCR) (% positive samples/month) | ND | TT | ND | NA | NA | 2024 | No | Naturally present in the environment | |
| Contaminants | MCLG | AL | 90 th percentile | Range | | # Samples Exceeding AL | Sample Date | Exceeds AL | Typical Source |
| | | | | Low | High | | | | |
| Inorganic Contaminants - Lead and Copper | | | | | | | | | |

| Contaminants | MCLG | AL | 90 th percentile | Range | | # Samples Exceeding AL | Sample Date | Exceeds AL | Typical Source |
|--|------|-----|--------------------------------|-------|-------|------------------------------|----------------|---------------|--|
| | | | | Low | High | | | | |
| Copper - action level at consumer taps (ppm) 20 total collected | 1.3 | 1.3 | 1.186 | 0.039 | 1.465 | 1 | 2024 | No | Corrosion of household plumbing systems; Erosion of natural deposits |
| Lead - action level at consumer taps (ppb) 20 total collected | 0 | 15 | 0.001 | 0 | 0.002 | 0 | 2024 | No | Corrosion of household plumbing systems; Erosion of natural deposits |

Undetected Contaminants

The following contaminants were monitored for, but not detected, in your water.

| Contaminants | MCLG or MRDLG | MCL, TT, or MRDL | Your Water | Violation | Typical Source |
|--------------------------------------|---------------------|------------------------|---------------|-----------|--|
| Arsenic (ppb) | 0 | 10 | ND | No | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Barium (ppm) | 2 | 2 | ND | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Nitrite [measured as Nitrogen] (ppm) | 1 | 1 | ND | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |

| Unit Descriptions | |
|--------------------------|---|
| Term | Definition |
| ppm | ppm: parts per million, or milligrams per liter (mg/L) |
| ppb | ppb: parts per billion, or micrograms per liter (µg/L) |
| % positive samples/month | % positive samples/month: Percent of samples taken monthly that were positive |
| NA | NA: not applicable |
| ND | ND: Not detected |
| NR | NR: Monitoring not required, but recommended. |

| Important Drinking Water Definitions | |
|--------------------------------------|---|
| Term | Definition |
| MCLG | 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. |
| MCL | 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. |
| TT | TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water. |
| AL | AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. |

| Important Drinking Water Definitions | |
|---|---|
| Variances and Exemptions | Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions. |
| MRDLG | MRDLG: Maximum residual disinfection 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. |
| MRDL | 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. |
| MNR | MNR: Monitored Not Regulated |
| MPL | MPL: State Assigned Maximum Permissible Level |
| 90th Percentile | Compliance with the lead and copper action levels is based on the 90th percentile lead and copper levels. This means that the concentration of lead and copper must be less than or equal to the action level in at least 90% of the samples collected. |

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