

2022 Annual Water Quality Report

Arcadia Water Utility

Safe Water Starts Here

A MESSAGE TO OUR VALUED CUSTOMERS

Our primary goal at the Arcadia Water Utility is to always deliver the best drinking water possible. Consequently, we are proud to share with you the 2022 Annual Drinking Water Quality Report. This report shows that the quality of your drinking water is excellent and safe, having met or exceeded all state and federal regulations.

Our customers are our top priority, and we strive to deliver quality services at a fair price. The latest technology in monitoring equipment is used to provide customers assurance that their water has been treated and monitored to the highest standards. Our goal is to preserve our resources, while preparing for future challenges.

To maintain our drinking water system, it involves routine sampling, flushing of water lines and ongoing maintenance. This report contains the results of monitoring done on your drinking water for the period of January 1 to December 31, 2022.

We hope that you will take a few minutes to review our report. It contains information on Arcadia Water Utility's water source, contaminants we test for, laboratory results, lead and copper and health information. Our report can be viewed online at www.cityofarcadiawi.com or customers may request a copy by calling us at 608-323-3452.



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Where Your Water Comes From

Water is pumped from 4 deep wells located throughout the city. Most of our wells are 14 to 18 inches in diameter and extend 362 to 482 feet in depth. Water in the Arcadia municipal system is ground water and is drawn from water bearing rock layers called aquifers. An aquifer is any type of geologic material, such as sand or sandstone, which can supply water to wells. The City of Arcadia's water is drawn from the Mt. Simon Aquifer.

Water System Overview

- Two reservoirs that hold 1.5 million gallons of water
- 25 miles of water mains
- 241 fire hydrants
- 1448 water meters in the system
- 414,255,000 gallons of water was pumped from the wells in 2022



Information About Drinking Water Contaminants

Drinking water, including bottled water, may reasonable 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 (Environmental Protection Agency) Hotline at 800-426-4791 or visiting their website at www.epa.gov/safewater.

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 it can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present and their sources:

- **Microbial contaminants**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.
- **Inorganic contaminants**, such as salts and metals, 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**, may come from a variety of sources such as agriculture and residential uses along with stormwater runoff.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, but can also come from gas stations, stormwater runoff and septic systems.
- **Radioactive contaminants**, may naturally occur or be the result of mining activities or oil and gas production.



To ensure that tap water is safe to drink, EPA prescribes regulations that limit the level of certain contaminants in water provided by public water systems. FDA (US Food and Drug Administration) regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

Special Notice for Immuno-Comprised Persons

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 from their health care providers regarding drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the EPA safe drinking water hotline at 800-426-4791.

Lead in Drinking Water

At the Arcadia Water Utility, the safety and quality of the water we supply to you is of great importance to us. Our results show that we have been very successful in our treatment process to minimize the tendency for lead to enter the water.

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. The Arcadia Water Utility is responsible for providing high quality drinking water but cannot control the variety of material used in plumbing components inside homes or commercial buildings.

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 at 800-426-4791 or online at www.epa.gov/safewater/lead.

Important Information for our Spanish Speaking Customers

Se trata de información importante sobre el agua potable en la ciudad de Arcadia. Si no entiendes este informe, por favor pide a alguien que interprete para usted.

Versión en español disponible

Water Quality Table 2022

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 table list only those contaminants which were detected in your water. If a contaminant was detected last year, it will appear in the following table 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 table below along with the sample date. Substances not detected are not included in the table.

Contaminant	MCL	MCLG	Your Water	Range of Results	Violations	Typical Source of Contaminants
Inorganic Contaminants						
Barium (ppm) – Tested 5/26/2020	2	2	0.012	0.011 - 0.012	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposit
Beryllium Total (ppb) – Tested 5/27/2020	4	4	0.61	0.0-0.61	No	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace and defense industries
Fluoride (ppm) – Tested 5/27/2020	4	4	0.5	0.1 - 0.5	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Nitrate (NO ₃ -N) (ppm)	10	10	0.07	0.01 - 0.07	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Nitrite (NO ₂ -N) (ppm)	1	1	0.010	0.010	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm) – Tested 5/26/2020	NA	NA	4.09	2.23 – 4.09	No	NA
Thallium Total (ppb) – Tested 5/26/2020	2	0.5	0.3	0.2-0.3	No	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories
Radioactive Contaminants						
Gross Alpha including Radon & Uranium (NA) – Tested 7/14/2021	NA	NA	0.9	0.0 – 0.9	No	Erosion of natural deposits
Radium (226 + 228) (pCi/l) – Tested 2/12/2021	5	0	1.3	1.0 – 1.3	No	Erosion of natural deposits
Disinfection Byproducts						
Haloacetic Acid (HAA5) (ppb) – Site D-7	60	60	1	1	No	By-product of drinking water chlorination
Total Trihalomethanes (TTHM) (ppb) – Site D-4	80	0	1.4	1.4	No	By-product of drinking water chlorination

Checking for Lead and Copper in Your Water

Arcadia Water Utility is required to submit samples collected at customer taps to the state once every three years; our last sampling cycle was July 2020. The EPA has established an “action level” of 15 ug/l for lead and 1300 ug/l for copper. Our system is in compliance of these limits.

Contaminant (Units)	Action Level	MCLG	90 th Percentile Level Found	# Of Results	Violation	Typical Source of Contaminant
Copper (ppm) – Tested 7/20/2020	AL=1.3	1.3	0.1750	0 of 10 results were above the action level.	No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Lead (ppb) – Tested 7/22/2020	AL=15	0	2.12	0 of 10 results were above the action level.	No	Corrosion of household plumbing systems; Erosion of natural deposits

Terms and Definitions

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

Health Advisory Level (HAL) - The concentration of a contaminant which, if exceeded, poses a health risk, and may require a system to post a public notice.

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 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.

NA - Not applicable

ND - Not detected.

Parts per million (ppm) or milligrams per liter (mg/l) - One part per million is demonstrated as 32 seconds out of 1 year or 1 penny out of \$10,000.

Parts per billion (ppb) or a microgram per liter (ug/l) - One part per billion is demonstrated as 3 seconds out of 100 years or 1 penny out of \$10,000,000.

Picocuries per liter (pCi/l) - Picocuries per liter is a measure of radioactivity in water.

Secondary Maximum Contaminant Level (SMCL): Secondary drinking water standards for contaminants that affect taste, odor, or appearance of the drinking

The State or Federal drinking water regulations did not require our water system to monitor our water for cryptosporidium during 2022.

The Water Quality Data Table section of this report will provide you information showing that our water quality has met or exceeded the Federal and State criteria requirements for 2022. **The EPA has determined that the City of Arcadia's water is safe at the levels detected.**

Cross Connection Control: Did you know...

Your water can become contaminated if connections to your plumbing systems are not properly protected!

The WI Department of Natural Resources requires all public water systems to maintain a Cross Connection Program involving public education, onsite inspections, and possible corrective actions by building owners. The Arcadia Water Utility's Cross Connection Program is designed to safeguard the public. The Utility has contracted with Hydro Corp, Inc of New Berlin, WI to assist with managing this mandated program.

Every residential property must be inspected every 10 years. Every business property must also be inspected but varies due to the nature of the business. When your property is due, you will be notified by letter to schedule an appointment. We ask for your cooperation in scheduling your appointment within the timeframe outline. A brochure is available at https://hydrocorpinc.com/wp-content/uploads/2021/10/WI_Residential-Pamphlet.pdf, or request a copy from the Arcadia Water Utility.

The Arcadia Water Utility operates under the direction of the City of Arcadia Water & Wastewater Utility Commission. The Commission meets the 1st Wednesday of each month at City Hall located at 945 S Dettloff Ave. Check the City's Web Site: www.cityofarcadiawi.com for meeting dates, time, agendas & meeting minutes.

Arcadia Utility Commission

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Billing Questions

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