



"Inspiring a Vibrant Community"

## Consumer Confidence Report for Calendar Year 2024

Este informe contiene información muy importante sobre el agua usted bebe.

Tradúscalo ó hable con alguien que lo entienda bien.

<https://espanol.epa.gov/espanol/recursos-e-informacion-sobre-el-ccr-para-los-consumidores>

### Verde Village 2,4 and 5 City of Cottonwood

Public Water System ID Number	Public Water System Name	
AZ04-13104	Cottonwood Municipal Water VV2	
Contact Name and Title	Phone Number	E-mail Address
Mike Traynor Water Operations Manager	928-634-0186 ext.3306	<a href="mailto:mtraynor@cottonwoaz.gov">mtraynor@cottonwoaz.gov</a>
In an effort to ensure our valued customers are informed about the quality of their water, you are being provided a copy of this annual drinking water report for your information. If you have any questions about the annual drinking water report, or if you would like to learn more about your drinking water system and what you can do to protect the source of your drinking water, please contact us at 928-634-0186 or visit: <a href="http://www.cottonwoodaz.gov/utilities">www.cottonwoodaz.gov/utilities</a>		

This is our annual report about your drinking water quality, also called a Consumer Confidence Report or CCR. Having clean, safe water is one of the most important services we provide, and we want you to be as informed as possible about your drinking water.

This report provides you with information about where your water comes from, results of sampling that we have performed, and any issues or violations that happened over the previous year. This water quality report includes a table with the most recent water testing results within the last 5 years. The table shows if different germs and chemicals were in a safe range and met EPA's health standards. Look for the column in the table called "TT or MCL violation," to see if your utility found unsafe levels of any germs or chemicals.

You may also find real-time information about our water system at the Arizona Department of Environmental Quality (ADEQ) *Drinking Water Watch* website at [https://azsdwis.azdeq.gov/DWW\\_EXT/](https://azsdwis.azdeq.gov/DWW_EXT/)

### Drinking Water Sources

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.

<b>Our water source(s):</b>	The City of Cottonwood's (City) water service area for System 13-104 includes all areas in Verde Village 2, 4 and 5. Within this service area boundary, there are 5 wells and 6 water storage tanks with a combined total capacity of 360,000 gallons. The City pumps all of its water from the deep regional groundwater aquifer and uses chlorination for disinfection. The five wells in this system are: Well 2-1 (EPDS001), Well 2-2 (EPDS002), Well 4-1 (EPDS003), Well 4-2 (EPDS004), Well 5-1- (EPDS005).
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## Source Water Assessment

Making the water safe to drink starts by protecting the place it comes from. We work with state scientists at the Arizona Department of Environmental Quality (ADEQ) to examine water at its source to look for possible pollutants. This is called a Source Water Assessment (SWA).

- **LOW RISK:** Based on the currently available information related to the hydrogeology of the well sites within this public water system and the land use practices adjacent to or within a specified distance of the drinking water source(s), the Department has given a low risk designation for the degree to which this public water system drinking water source(s) are protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measures will have little impact on protection.
- Additional source water assessment documentation can be obtained by contacting ADEQ.

## Drinking Water Contaminants

Contaminants are any physical, chemical, biological, or radiological substance or matter in water. 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 occur naturally in the soil or groundwater or may 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.

**Radioactive Contaminants:** which can be naturally-occurring or be the result of oil and gas production and mining activities.

## Vulnerable Population

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. In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (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.

More information about contaminants, their potential health effects, and the appropriate means to lessen the risk can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800-426-4791 or visiting the website [epa.gov/safewater](http://epa.gov/safewater).

## Definitions

**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.

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

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

**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.

**Maximum Residual Disinfectant Level (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.

**Level 1 Assessment:** 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 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.

**RAA:** Running Annual Average- an average of monitoring results for the previous 12 calendar months or previous 4 quarters.

## Lead Informational Statement

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.

Cottonwood Municipal Water CW1: 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.

To address lead in drinking water, public water systems were required to develop and maintain an inventory of service line materials by Oct 16, 2024. Developing an inventory and identifying the location of lead service lines (LSL) is the first step for beginning LSL replacement and protecting public health. Please contact us if you would like more information about the inventory or any lead sampling that has been done.

If you are concerned about lead in your water and wish to have your water tested by a certified laboratory at your own expense please visit <https://cottonwoodaz.gov/DocumentCenter/View/7720/Certified-Drinking-Water-Laboratories>

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 – Regulated Contaminants

The City routinely monitors for contaminants in your drinking water in accordance with Federal and State laws. The State of Arizona requires the city to monitor for certain contaminants less than once per year because either the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Some of the City's data, although representative, may be more than one year old. The test results for Total Coliform Bacteria, E.Coli, Antimony, Asbestos, Beryllium, Cadmium, Cyanide, Mercury, Nitrite, Selenium, Thallium, Lead, Synthetic Organic Chemicals (SOC) including Pesticides, Volatile Organic Chemicals (VOC), Haloacetic Acids (HAA5), Radionuclides and Aroclor (PCB Screening test) were "Non-Detect (ND)" and therefore were not included in this report.

If you have questions pertaining to this report or on a particular contaminant, please contact Mike Traynor –Water Operations Manager at (928) 634-0186 ext. 3306.

**These tables show the results of our monitoring for the period of January 1 to December 31, 2024 unless otherwise noted.**

The following are terms related to water quality data presented in this table:

**Not Applicable (NA):** Sampling was not completed because it was not required by regulation.

**Not Detected (ND or <):** Not detectable at reporting limit.

**Minimum Reporting Limit (MRL):** The smallest concentration of a substance that can be reliably measured by a given analytical method.

**Millirems per year (MREM):** A measure of radiation absorbed by the body.

**Nephelometric Turbidity Units (NTU):** Measure of water clarity.

**Million fibers per liter (MFL):** Measure of asbestos fibers.

**Picocuries per liter (pCi/L):** Measure of the radioactivity in water.

**ppm:** Parts per million or Milligrams per liter (mg/L), equal to 1/1000 of a gram.

**ppb:** Parts per billion or Micrograms per liter (µg/L), equal to 1000 ppm.

**ppt:** Parts per trillion or Nanograms per liter (ng/L), equal to 1000 ppb.

**ppq:** Parts per quadrillion or Picograms per liter (pg/L), equal to 1000 ppt.

Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine (ppm)	N	0.72	0.67-0.72	4	4	QTRLY 2024	Water additive used to control microbes
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Total Trihalomethanes (TTHM) (ppb)	N	0.5	0.5-0.5	80	N/A	AUGUST 2024	Byproduct of drinking water disinfection
Lead & Copper	MCL Violation Y or N	90 <sup>th</sup> Percentile	Number of Samples Exceeding AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	N	0.22	0	1.3	1.3	AUGUST 2022	Corrosion of household plumbing systems; erosion of natural deposits
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Arsenic <sup>1</sup> (ppb)	N	5	0-17	10	0	QTRLY 2024	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Barium (ppm)	N	0.5	0.5-0.5	2	2	AUGUST 2024	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Chromium	N	9.6	9.6-9.6	100	100	AUGUST 2024	Discharge from steel and pulp mills; Erosion of natural deposits

Fluoride (ppm)	N	0.35	0.35-0.35	4	4	AUGUST 2024	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate <sup>2</sup> (ppm)	N	2	0.76-2.0	10	10	APRIL 2024	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium (ppm)	N	39 (EPDS001) 22 (EPDS002) 37 (EPDS003) 27 (EPDS004) 39 (EPDS005)	20-29	N/A	N/A	AUGUST 2024 APRIL 2022 APRIL 2022 APRIL 2022 APRIL 2022	Erosion of natural deposits

<sup>1</sup> **Arsenic** is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

<sup>2</sup> **Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

## Water Quality Table – Unregulated Contaminants

Your drinking water was sampled on 04/30/2024 for the presence and concentration of 29 different per- and polyfluoroalkyl substances, some known by the acronyms PFAS, PFOA, PFNA, PFHxS, PFBS, and GenX, a group of contaminants in the final stages of becoming regulated by the EPA. PFAS are man-made chemicals that are resistant to heat, water, and oil. They have been used since the 1940s to manufacture various consumer products, including fire-fighting foam and stain resistant, water-resistant, and nonstick items. Many PFAS do not break down easily and can build up in people, animals, and the environment over time. Scientific studies have shown that exposure to certain PFAS can be harmful to people and animals, depending on the level and duration of exposure.

To learn more about this group of chemicals, we encourage you to visit the ADEQ website at <https://www.azdeq.gov/pfas-resources>. You may also read the ADEQ-provided "PFAS 101 Fact Sheet" or view ADEQ's Introduction to PFAS video on YouTube at <https://www.youtube.com/watch?v=t44kSh0uKXE>

All EPDS sample sites in this system were non-detect for the following substances as indicated in the table below.

Per- and Polyfluoroalkyl Substances	Highest Level Detected	Range of All Samples	Proposed MCL
<b>PFOA (in parts per trillion)</b>	ND	ND	4.0 ppt
<b>PFOS (in parts per trillion)</b>	ND	ND	4.0 ppt
<b>PFNA (in parts per trillion)</b>	ND	ND	10 ppt
<b>PFHxS (in parts per trillion)</b>	ND	ND	10 ppt
<b>PFBS (in parts per trillion)</b>	ND	ND	N/A*
<b>GenX (in parts per trillion)</b>	ND	ND	10 ppt
<b>Calculated Hazard Index (HI)</b>	0		1 (no units)

<sup>\*</sup> **Hazard Index or HI:** The Hazard Index is an approach that determines the health concerns associated with mixtures of certain PFAS in finished drinking water. Low levels of multiple PFAS that individually would not likely result in adverse health effects may pose health concerns when combined in a mixture. The Hazard Index MCL represents the maximum level for mixtures of PFHxS, PFNA, HFPO-DA, and/or PFBS allowed in water delivered by a public water system. A Hazard Index greater than 1 requires a system to take action.

For more information about these reports and what is required in them, visit EPA's website at:  
<https://www.epa.gov/CCR/CCR-information-consumers>