

# Arizona Village Annual Water Quality Report

Public Water System #090400300

2022 - 2023

This report is a snapshot of your water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. 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. The Environmental Protection Agency (EPA) and 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 water comes from 3 ground water sources. One ground water source is purchased from Public Water System #CA3610032.

## **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 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 including:

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 amount 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.

## WATER QUALITY TABLE

The table below lists all of the drinking water contaminants detected during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. 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 monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MRDLG	MRDL	Your Water	Range		Sample Date	MRDL Exceeded	Typical Source
				Low	High			

### Disinfectants

Chlorine Units: Chlorine residual, ppm	4	4	0.5223	0.16	2.2	2023	No	Drinking water additive used for disinfection
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Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			

### Inorganic Contaminants

Arsenic Units: ppb	0	10	2.5	N/A	N/A	2021	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
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Barium Units: ppm	2	2	0.036	N/A	N/A	2021	No	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
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Cadmium Units: ppb	5	5	3.3	N/A	N/A	2021	No	Corrosion of galvanized pipes; erosion of natural deposits; electroplating, chemical factories and metal refineries; waste batteries and paints
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Fluoride Units: ppm	4	4	0.21	N/A	N/A	2021	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
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Sodium Units: ppm	N/A	N/A	350	N/A	N/A	2021	No	Erosion of natural deposits; salt water intrusion
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Contaminants	MCLG	Action Level	Your Water	Range	Sample Date	A.L. Exceeded	Typical Source
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### Lead and Copper Rule

Copper Units: ppm - 90th Percentile	1.3	1.3	0.203	0 sites over Action Level	2023	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead Units: ppb - 90th Percentile	0	15	1.11	0 sites over Action Level	2023	No	Corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

Contaminants	MCLG	MCL	Your Water	Range Low High	Sample Date	Violation	Typical Source
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### Radiological Contaminants

Adjusted Alpha (Excl. Radon & U) Units: pCi/L	0	15	1.1	0.1 1.1	2022	No	Erosion of natural deposits
Uranium (combined) Units: ppb	0	30	5.7	4.8 5.9	2022	No	Erosion of natural deposits

### Special Education Statements

#### Additional Information for Lead

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. PWS system is responsible for providing high quality drinking water, but 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 at 1-800-426-4791 or at <http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water>.

## Microbiological Testing

We are required to test your water regularly for signs of microbial contamination. Positive test results could lead to follow-up investigations called assessments and potentially the issuance of public health advisories. Assessments could lead to required corrective actions. The information below summarizes the results of those tests.

Calendar Year	Sampling Requirements	Sampling Conducted (months)	Total E.coli Positive	Assessment Triggers	Assessments Conducted
2023	3 Samples due monthly	12 out of 12	0	2	2
2022	3 Samples due monthly	12 out of 12	0	0	0

During the year 2023, One Level 1 Assessment was required to be completed for our water system. One Level 1 Assessment completed.

During the year 2023, One Level 2 Assessment was required to be completed for our water system. One Level 2 Assessment completed. In addition, we were required to take 0 corrective action and we completed 0 of these action.

### Definitions

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.

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 system on multiple occasions. E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely compromised immune systems. We found E. coli bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

## Significant Deficiencies

*Sanitary deficiencies are defects in a water system's infrastructure, design, operation, maintenance, or management that cause, or may cause interruptions to the "multiple barrier" protection system and adversely affect the system's ability to produce safe and reliable drinking water in adequate quantities.*

*The following is a listing of significant deficiencies that have yet to be corrected. Your public water system is still working to correct these deficiencies and interim milestones are shown, as applicable.*

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### Deficiency Title: Location Lacks an Entry Point Tap

Date Identified: 2/1/2023 Overall Due Date: 9/30/2023

Deficiency Description: This location lacks an entry point sample tap. There is a tap after PF001 which is a large diameter valve, but it is not suitable for sample collection.

Corrective Action Plan: A smooth nosed sample tap should be installed after treatment prior to the distribution system. The correct entry point sample site location should also be updated in the site sample plan as needed.

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### Deficiency Title: The Electrical Conduit is Broken at the Wellhead

Date Identified: 2/1/2023 Overall Due Date: 3/31/2024

Deficiency Description: The conduit is broken where the power cable enters the wellhead. This could lead to contamination of the source water.

Corrective Action Plan: Repair or replace the conduit.

**Deficiency Title: There is an Opening in the Sanitary Seal**

Date Identified: 2/1/2023 Overall Due Date: 3/31/2024

Deficiency Description: A fitting has been removed from the wellhead leaving an unprotected opening into the well.

Corrective Action Plan: To prevent contamination of the well and aquifer, all openings must be sealed and watertight. Repair the unprotected opening such that the well seal is protected from contamination from insects and other foreign objects.

**Health-Based Violations**

The table below lists the health-based violations the water system incurred during the last calendar year. While you should have received notification of the violations at an earlier date, we are required to list them in this report.

Contaminant Name	Type of Violation	Begin/End Date	Steps Taken to Correct the Violation	Return to Compliance	Return Date	Action Comment
Lead and Copper Rule	Failure to provide required Lead Consumer Notice.	10/13/2023 -	Submission of certification of provision of required Lead Consumer Notice.			

**Public Notice for Monitoring/Reporting and Other Violations**

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the period covered by this report, we did not complete all monitoring or testing for the contaminants listed below, and therefore cannot be sure of the quality of your drinking water during that time. Violations which have not been returned to compliance will be repeated annually. The table below lists the contaminants we did not properly test for or other violations during the report period.

Contaminant Name	Type of Violation	Begin/End Date	Steps Taken to Correct the Violation	Return to Compliance	Return Date	Action Comment
1,2,4-Trichlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Chlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
o-Dichlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Styrene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Tetrachloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Toluene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
trans-1,2-Dichloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Dichloromethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
cis-1,2-Dichloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
1,1,2-Trichloroethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Uranium (combined)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 3/31/2023	Reporting monitoring results as required.			

Contaminant Name	Type of Violation	Begin/End Date	Steps Taken to Correct the Violation	Return to Compliance	Return Date	Action Comment
Adjusted Alpha (Excl. Radon & U)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 3/31/2023	Reporting monitoring results as required.			
Uranium (combined)	Major monitoring/reporting violation for routine chemical monitoring.	4/1/2023 - 6/30/2023	Reporting monitoring results as required.			
Adjusted Alpha (Excl. Radon & U)	Major monitoring/reporting violation for routine chemical monitoring.	4/1/2023 - 6/30/2023	Reporting monitoring results as required.			
Uranium (combined)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2022 - 3/31/2022	Reporting monitoring results as required.			
Xylenes	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Carbon Tetrachloride	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Adjusted Alpha (Excl. Radon & U)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2022 - 3/31/2022	Reporting monitoring results as required.			
Uranium (combined)	Major monitoring/reporting violation for routine chemical monitoring.	4/1/2022 - 6/30/2022	Reporting monitoring results as required.			
Adjusted Alpha (Excl. Radon & U)	Major monitoring/reporting violation for routine chemical monitoring.	4/1/2022 - 6/30/2022	Reporting monitoring results as required.			
Uranium (combined)	Major monitoring/reporting violation for routine chemical monitoring.	7/1/2022 - 9/30/2022	Reporting monitoring results as required.			
Adjusted Alpha (Excl. Radon & U)	Major monitoring/reporting violation for routine chemical monitoring.	7/1/2022 - 9/30/2022	Reporting monitoring results as required.			
Glyphosate	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2022 - 12/31/2022	Reporting monitoring results as required.			
Ethylbenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Benzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
1,2-Dichloropropane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
1,2-Dichloroethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Trichloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
p-Dichlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
1,1-Dichloroethylene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
1,1,1-Trichloroethane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Vinyl Chloride	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Chlorine	Failure to submit DBPR results for Stage 1 or 2 Disinfection By-Products Rule	10/1/2023 - 12/31/2023	Submission of subsequent monitoring results.	Yes	2/7/2024	Chlorine residuals reported with February 2024 samples.
Lead and Copper Rule	Failure to submit Followup and Routine Sampling results for Lead and Copper Rule.	1/1/2020 - 12/31/2022	Reporting monitoring results as required.			

Contaminant Name	Type of Violation	Begin/End Date	Steps Taken to Correct the Violation	Return to Compliance	Return Date	Action Comment
Glyphosate	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Benzo(a)pyrene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Dalapon	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Di (2-ethylhexyl) adipate	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Di (2-ethylhexyl) phthalate	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Dinoseb	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Diquat	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Uranium (combined)	Major monitoring/reporting violation for routine chemical monitoring.	7/1/2023 - 9/30/2023	Reporting monitoring results as required.			
Endrin	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Pentachlorophenol	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Hexachlorobenzene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Hexachlorocyclopentadiene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Oxamyl [Vydate]	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Picloram	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Simazine	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Dioxin (2,3,7,8-TCDD)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Endothall	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
2,4-D	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Uranium (combined)	Major monitoring/reporting violation for routine chemical monitoring.	10/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Adjusted Alpha (Excl. Radon & U)	Major monitoring/reporting violation for routine chemical monitoring.	10/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Nitrate [reported as Nitrogen]	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Alachlor	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Atrazine	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Carbofuran	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			

Contaminant Name	Type of Violation	Begin/End Date	Steps Taken to Correct the Violation	Return to Compliance	Return Date	Action Comment
2,4,5-TP (Silvex)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Dibromochloropropane (DBCP)	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Toxaphene	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Ethylene Dibromide	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Heptachlor	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Heptachlor epoxide	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Lindane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Methoxychlor	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
PCBs [Polychlorinated biphenyls]	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			
Adjusted Alpha (Excl. Radon & U)	Major monitoring/reporting violation for routine chemical monitoring.	7/1/2023 - 9/30/2023	Reporting monitoring results as required.			
Chlordane	Major monitoring/reporting violation for routine chemical monitoring.	1/1/2023 - 12/31/2023	Reporting monitoring results as required.			

What should I do, as a consumer?

There is nothing you need to do at this time.

What is being done by the utility?

We will work with our regulatory official to conduct all required contaminant monitoring as directed.



## Definitions

<b>Term</b>	<b>Definition</b>
ppm	parts per million, or milligrams per liter (mg/L)
ppb	parts per billion, or microgram per liter (ug/L)
positive samples	the number of positive samples taken that year
% positive samples/month	% of samples taken monthly that were positive
pCi/L	picocuries per liter
ND	Not detected
N/A	Not applicable
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	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.
MRDL	Maximum Residual Disinfectant Level
MRDLG	Maximum Residual Disinfectant Level Goal
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level: The concentration of a contaminant which, if exceeded, trigger treatment or other requirements which a water system must follow.
90th Percentile	Statistical value used to determine if Action Level is exceeded. Determined by calculating the value at which 90% of the samples tested were below that value.

### How can I get involved?

Please feel free to contact the number provided below for more information or for a translated copy of the report if you need it in another language.

\*Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.\*

#### For more information please contact:

Cecil Collier, Water Supervisor, 8780 Highway 95 PO Box 6870, Mohave Valley, Arizona 86446

Phone: (928) 323-4058

Fax: