

Chui Chu Annual Water Quality Report

Public Water System #090400003

Calendar Year 2024

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 4 ground water sources.

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;
- 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 Low High		Sample Date	MRDL Exceeded	Typical Source
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Disinfectants

Chlorine Units: Chlorine residual, ppm	4	4	0.6783	0.28	1.87	2024	No	Drinking water additive used for disinfection
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Contaminants	MCLG	MCL	Your Water	Range Low High		Sample Date	Violation	Typical Source
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Disinfection By-Products

Five Haloacetic Acids (HAA5) Units: ppb	N/A	60	6.2	N/A	N/A	2022	No	By-product of drinking water chlorination
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Total Trihalomethanes (TTHMs) Units: ppb	N/A	80	15	N/A	N/A	2022	No	By-product of drinking water chlorination
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Contaminants	MCLG	MCL	Your Water	Range Low	High	Sample Date	Violation	Typical Source
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Inorganic Contaminants

Arsenic Units: ppb	0	10	9	4.8	10	2024	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Nitrate [reported as Nitrogen] Units: ppm	10	10	6.975	4.5	9.6	2024	No	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium Units: ppm	N/A	N/A	120	N/A	N/A	2022	No	Erosion of natural deposits; salt water intrusion

Contaminants	MCLG	Action Level	Your Water	Range Low	High	Sample Date	A.L. Exceeded	Typical Source
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Lead and Copper Rule

Copper Units: ppm - 90th Percentile	1.3	1.3	0.0435	0.0036	0.067	2023	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
				0 sites over Action Level				

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	4.1	N/A	N/A	2020	No	Erosion of natural deposits
Uranium (combined) Units: ppb	0	30	6.1	N/A	N/A	2020	No	Erosion of natural deposits

Special Statements

Educational Statement for Lead

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. Chui Chu 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 your water utility. 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>.

Additional Information for Arsenic

While your drinking water meets the EPA standard for arsenic, it does contain low levels of arsenic. The EPA standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The 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.

Additional Information for Nitrate

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, you should ask for advice from your health care provider.

Per- and Polyfluoroalkyl Substances (PFAS) Monitoring

In April 2024, EPA announced a final National Primary Drinking Water Regulation (NPDWR) for six PFAS compounds. Under the rule, we are required to conduct initial monitoring by 2027 and comply with maximum contaminant levels (MCLs) by 2029. Last year, our water system participated in a voluntary sampling project that evaluated for the presence of twenty-five PFAS compounds, including the six compounds involved in the new rule. No PFAS compounds were detected in your drinking water. PFAS are a group of thousands of synthetic chemicals that have been in use since the 1940s. PFAS have been found in a wide array of consumer and industrial products and as an ingredient in firefighting foam. Current scientific research has shown links between exposure to some PFAS chemicals and adverse health outcomes. Drinking water may be impacted in communities where these chemicals have contaminated the water supply. You can find more information about EPA's actions to address PFAS in drinking water and links to informational resources here: www.epa.gov/pfas

Service Line Inventory for Systems with Unknowns

Chui Chu was required to complete an inventory of service line materials to determine whether any service lines connected to the distribution system are made of lead material. We identified 1 service lines out of 132 at Chui Chu are made of unknown material. The service line inventory is available upon request, please contact us for more information.

Additional Information on Lead

Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

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 <i>(months)</i>	Total E.coli Positive	Assessment Triggers	Assessments Conducted
2024	1 Sample due monthly	12 out of 12	0	0	0

Definitions

Term	Definition
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:

Ross Schroeder, Manager, P.O. Box 816, Sells, AZ 85634

Phone: (520) 383-5897

Fax: (520) 383-1838