

# New Fields Annual Water Quality Report

Public Water System #090400019

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 2 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; 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	0.4817	0.26	1.01	2023	No	Drinking water additive used for disinfection
---	---	---	--------	------	------	------	----	---

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

## Disinfection By-Products

Five Haloacetic Acids (HAA5) Units: ppb	N/A	60	5.6	N/A	N/A	2022	No	By-product of drinking water chlorination
--	-----	----	-----	-----	-----	------	----	---

Total Trihalomethanes (TTHMs) Units: ppb	N/A	80	11	N/A	N/A	2022	No	By-product of drinking water chlorination
---	-----	----	----	-----	-----	------	----	---

Contaminants	MCLG	MCL	Your Water	Range Low High	Sample Date	Violation	Typical Source
<b>Inorganic Contaminants</b>							
Arsenic Units: ppb	0	10	4.7	2.9 6	2023	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Chromium Units: ppb	100	100	4.4	N/A N/A	2021	No	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride Units: ppm	4	4	2.1	N/A N/A	2021	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate [reported as Nitrogen] Units: ppm	10	10	1.5	N/A N/A	2023	No	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium Units: ppm	N/A	N/A	56	N/A N/A	2022	No	Erosion of natural deposits; salt water intrusion

Contaminants	MCLG	Action Level	Your Water	Range	Sample Date	A.L. Exceeded	Typical Source
--------------	------	--------------	------------	-------	-------------	---------------	----------------

**Lead and Copper Rule**

Copper Units: ppm - 90th Percentile	1.3	1.3	0.1295	0 sites over Action Level	2021	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead Units: ppb - 90th Percentile	0	15	2.405	0 sites over Action Level	2021	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
--------------	------	-----	------------	-------------------	-------------	-----------	----------------

**Radiological Contaminants**

Adjusted Alpha (Excl. Radon & U) Units: pCi/L	0	15	6.1	N/A N/A	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>.

### **Per- and Polyfluoroalkyl Substances (PFAS) Monitoring**

Last year, your water system participated in a voluntary sampling project that evaluated for the presence of twenty-five PFAS compounds. No PFAS constituents 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. EPA does not currently regulate any PFAS compounds, but has established health advisories for two PFAS compounds, and is currently working to develop a National Drinking Water Regulation for PFAS. EPA anticipates finalizing the rule in fall of 2023.

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](http://www.epa.gov/pfas)

---

## Micr obiological 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	1 Sample due monthly	12 out of 12	0	0	0

## 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.*

---

### Deficiency Title: Distribution System Pressure

Date Identified: 6/10/2021 Overall Due Date: 9/30/2026

Deficiency Description: As stated in previous sanitary surveys, there are homes near the storage tank and Well 3 that would not have a minimum distribution system pressure of 20 psi, based on the elevations of the homes in relation to the elevation and depth of Storage Tank 1. Pressures were not obtained from the closest homes, but the elevation difference between the closest home and Storage Tank 1 is approximately 16 feet. With the 29-foot-tall storage tank, the static pressure provided at the closest home would be approximately 16 psi if the tank was  $\frac{3}{4}$ -full.

Corrective Action Plan: Low water pressure increases the risk of backflow contamination into the distribution system. Most modern design standards (e.g., Ten States Standards) recommend a minimum working pressure of 35 psi under normal conditions and 20 psi during extreme conditions, such as fire flows. Methods of increasing pressure to the upper elevations in the distribution system for New Fields PWS should be investigated. It is understood that the New Fields PWS is presently under design to be tied in with the Topawa Intertie PWS and that keeping the New Fields PWS storage tank operational is being considered in the design. It is recommended that low pressure in the New Fields PWS distribution system be considered in the design of the intertie. TOUA should also consult with a professional engineer to evaluate, and provide recommendations for, interim solutions to increase pressure within the distribution system. To the extent that interim solutions are feasible, those solutions should be implemented.

### Milestone completed by 10/8/2021

*Corrective Action Notes: Installed new ultrasonic water meters with cellular end-points and inline check valves on services with pressures below 20 PSI.*

---

## 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:

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

**Phone:** (520) 383-5897

**Fax:** (520) 383-1838