

Global Water Resources is pleased to present the annual drinking water quality report. (Consumer Confidence Report) for calendar year 2023. This report contains important information about the quality and safety of your water.

Spanish (Espanol)

Este informe contiene information muy importante sobre la calidad de su agua para beber. Traduscalo o hable con aguien que lo entiends bien.

Customer Resources

Global Water's customer assistance program helps customers for the following purposes:

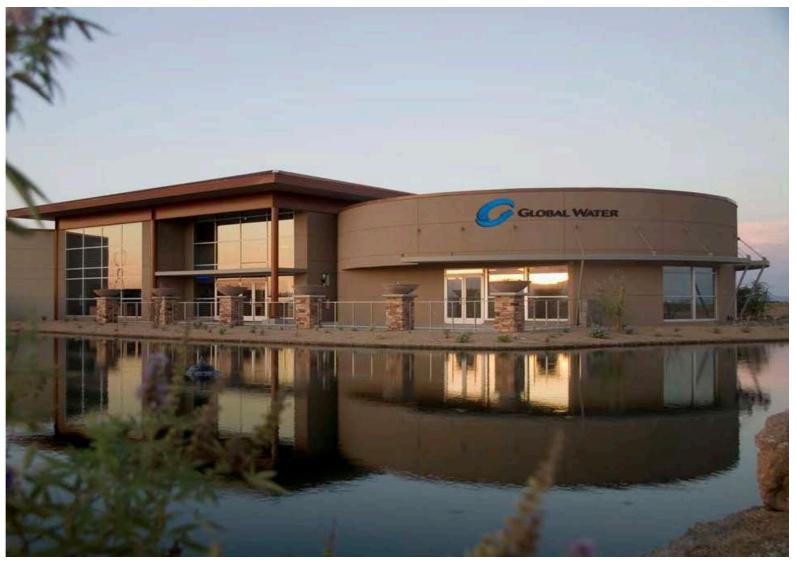
- Low-Income Assistance
- Deployed Service Member Assistance
- Disabled Veteran Assistance
- Furloughed Worker Assistance
- Medical Hardship Assistance

If you are a Global Water customer who is in need of assistance, you can find more information about our Customer Assistance Program at:

https://www.gwresources.com/customer-assistance or you can call us at 866-940-1102.

Customer Portal: https://gwresources.watersmart.com/index.php/welcome

- View and pay your bill on-line or on your smart phone.
- Set up automatic payments.
- View monthly reads.
- Manage multiple accounts.
- Provide account access to multiple people.



What is a Consumer Confidence Report (CCR)?

The purpose of a CCR is to improve public health protection by providing educational material that allows consumers to make educated decisions regarding any potential health risks pertaining to the quality, treatment, and management of their drinking water supply. To ensure that tap water is safe to drink, the United States Environmental Protection Agency (EPA) prescribes regulations which limit the concentration of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish equivalent limits for contaminants in bottled water which must provide the same protection for public health. This report provides a summary of the water quality tests and measurements taken in 2023 for this Public Water System.

To learn more about how to help protect your drinking water sources, any details provided in this report, or to attend a scheduled public meeting please contact Jon Corwin or Holly Wilson at the GWR office at (866) 940 - 1102 or visit our website at www.gwresources.com. For more information about drinking water contaminants, their regulations and potential health effects, call the EPA Safe Drinking Water Hotline at 1-800-426-4791.



Water Source and Distribution System

The current potable water source for Global Water – Santa Cruz Water Company – Picacho Cove is groundwater that is hauled from Global Water – Santa Cruz Water Company – Red Rock distribution system, into two storage tanks (Reservoirs) inside the Nikola Manufacturing Plant. These two reservoirs are used for continuous supply and to guarantee adequate potable water flow into the Facility.

Water Hauled from Red Rock Water Co. is disinfected with sodium hypochlorite, which when added to water reacts with Total Organic Carbon (TOC) to form disinfection byproducts. Due to groundwater in Arizona being low in TOC, the byproduct level is also low in potable water originating from groundwater.

Global Water Resources monitors drinking water from the source, before and after it is transported, biweekly at the Storage Tanks and at the entry point into the distribution system.

Backflow and Cross- Connection

To protect consumers from contamination caused by backflow through unprotected cross connections, Global Water requires installation and periodic testing of backflow prevention assemblies. Water pressure in drinking water pipes both commercial or residential can suddenly drop during high water use in homes or in the distribution system (firefighting, water main break etc.) The Global Water Backflow/Cross Connection Control Program assures that assemblies are tested and maintained as needed.

Source Water Assessment (SWA)

The Arizona Department of Environmental Quality (ADEQ) evaluates each water source used by public water systems (PWS) in Arizona. These evaluations assess the hydrogeology of drinking water sources to determine the quality of groundwater being drawn into wells, the watersheds supplying surface water and the surveyed land being used for activities occurring near drinking water sources. The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land 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. This PWS did not receive a SWA from ADEQ because the PWS was either inactive at the time or the PWS did not exist.

Drinking Water Contaminants

The sources of drinking water (both tap 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.

Contaminants that may be present in source water include:

- 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 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**, such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources.
- ♣ Organic chemical contaminants, such as synthetic and volatile organic chemicals are by-products of industrial processes and petroleum production, and may also come from gas stations, urban storm water runoff, and septic systems.
- **Radioactive contaminants**, that can be naturally occurring or be the result of oil and gas production and mining activities.

Potential Contaminants of Concern

- ♣ Arsenic: If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. 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 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.
- ▶ **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, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.
- ♣ Lead: Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Picacho Cove Water Company is responsible for providing high quality drinking water but cannot control the variety of materials used in residential plumbing components. When your water has been sitting for several hours, you can reduce the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

Additional Health Information

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. Some people may be more vulnerable to contaminants in drinking water than the general population.

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. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at 1-800-426-4791.

Key Definitions

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.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected health risk.

Maximum Residual Disinfectant Level (MRDL): The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur.

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

Not Applicable (NA): Sampling was not completed by regulation or was not required.

Nephelometric Turbidity Units (NTU): A measure of water clarity.

ppm: Parts per million or Milligrams per liter (mg/L) ppb: Parts per billion or Micrograms per liter (µg/L)

ppt: Parts per trillion or Nanograms per liter (ng/L)

pCi/L: Measure of the radioactivity in water.

WATER QUALITY TABLES

| | 2023 Wat | er Qu | ality Dat | ta Tables – | GW – Santa | a Cruz Water Company – Picacho //// | | |
|--|-------------------------------|--------------|---------------------------|-----------------------------------|-------------------------------|--|--|--|
| Disinfection and Disinfection By-Products (DBPs) | | | | | | | | |
| | Analyte | Unit | MCL, TT, or MRDL | MCLG or MRDLG | Range (Avg) | Likely Source of Contamination | | |
| Chlorine | 2023 | ppm | 4 | 4 | 0.1-1.5 (0.7) | Water additive used to control microbes | | |
| Total Trihalo | | ppb | 80 | NA | 12 | By-product of drinking water disinfection | | |
| (TTHM) Haloacetic A | 2023 Acids (HAA5) 2023 | ppb | 60 | NA | <2 | By-product of drinking water disinfection | | |
| Lead and Copper | | | | | | | | |
| Analyte Unit AL Sampling 90th Percentile Likely Source of Contamination | | | | | | | | |
| Copper | 2022 | | 1.3 | 5 Samples from | 0.0054 | Corrosion of household plumbing systems; erosion of natural deposits | | |
| Lead | 2022 | ppm | 1.5 | consumer's tap 5 Samples from | <0.5 | | | |
| Lead | 2022 | ppb | | consumer's tap | | Corrosion of household plumbing systems; erosion of natural deposits | | |
| Revised Total Coliform Rule (RTCR) - Microbiological | | | | | | | | |
| Micr | robiological | MCL/ MCLG | Positive Samples | Negative Samples | Violation Y or N | Likely Source of Contamination | | |
| E. Coli | 2023 | 0 | 0 | 12 | N | Human and animal fecal waste | | |
| Fecal Indica (From GWR so | | 0 | 0 | 12 | N | Human and animal fecal waste | | |
| Total Colifo | rm Bacteria 2023 | 0 | 0 | 12 | N | Naturally present in the environment | | |
| 2023 Water Quality Data Tables – GW – Santa Cruz Water Company - Red Rock | | | | | | | | |
| Primary Contaminants | | | | | | | | |
| А | Analyte | Unit | MCL, TT, or MRDL | MCLG or MRDLG | Range (Avg) | Likely Source of Contamination | | |
| Inorganic C | Contaminants | | ······· | | | Erosion of natural deposits, runoff from orchards, runoff from glass and | | |
| Arsenic | 2021 | ppb | 10 | 0 | 3.2 | electronics production wastes Erosion of natural deposits; water additive which promotes strong | | |
| Fluoride | 2021 | ppm | 10 | 10 | 3.5 | teeth; discharge from fertilizer and aluminum factories Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of | | |
| Chromium | 2023 | ppm | 100 | 100 | 1.2 | natural deposits Discharge from steel and pulp mills; erosion of natural deposits | | |
| Barium | 2021 | ppm | 2 | 2 | 0.1 | Discharge from drilling waste; discharge from metal refineries; erosion of natural deposits | | |
| Combined Ra | | pCi/L | 5 | 5 | <0.6 | Erosion of natural deposits | | |
| Alpha Emitte | ers 2018 | pCi/L | 15 | Second | 3.9 ary Contamii | Erosion of natural deposits | | |
| А | nalyte | Unit | MCL, TT, or | MCLG or MRDLG | Range (Avg) | Likely Source of Contamination | | |
| Hardness as 0 | CaCo3 2019,2021 | ppm | MRDL NA | NA | 78-110 (94) | Naturally present in the environment | | |
| Magnesium Sodium | 2019,2021 2019,2021 | ppm ppm | NA NA | NA NA | <2-4.3 (2.15) 42-47 (44.3) | Naturally present in the environment Naturally present in the environment | | |
| Sulfate Calcium | 2019,2021 2019,2021 | ppm ppm | NA NA | NA NA | 37-51 (44) 31-39 (35) | Naturally present in the environment Naturally present in the environment | | |
| | 2019,2021 red Solids (TDS) | ppm ppm | NA NA | NA NA | 140 260-290 (275) | Naturally present in the environment Naturally present in the environment | | |
| Disinfection and Disinfection By-Products (DBPs) | | | | | | | | |
| А | nalyte | Unit | MCL, TT, or MRDL | MCLG or MRDLG | Range (Avg) | Likely Source of Contamination | | |
| Chlorine Total Tribalo | 2023 methanes (TTHM) | ppm | 4 | 4 | 0.3-1.7 (0.9) | Water additive used to control microbes | | |
| 2023 | cids (HAA5) 2023 | ppb ppb | 80 60 | NA NA | 8.1-23 (15.55) <2 | By-product of drinking water disinfection By-product of drinking water disinfection | | |
| | | , , , , , , | | | d and Coppe | • | | |
| | nalyte | Unit | AL | Sampling 13 Samples from | 90th Percentile | Likely Source of Contamination | | |
| Copper | 2023 | ppm | 1.3 15 | consumer's tap 13 Samples from | 0.0275 <0.5 | Corrosion of household plumbing systems; erosion of natural deposits Corrosion of household plumbing systems; erosion of natural deposits | | |
| | | PP | | consumer's tap | | | | |
| Revised Total Coliform Rule (RTCR) - Microbiological MCL/M Number of Number | | | | | | | | |
| | obiological | CLG | Positive Samples | Negative Samples | Violation Y or N | Likely Source of Contamination | | |
| E. Coli Fecal Indicat | | 0 | 0 | 42 42 | N N | Human and animal fecal waste Human and animal fecal waste | | |
| (From GWR source) Total Coliform Bacteria 2023 0 0 42 N Naturally present in the environment | | | | | | | | |
| Per- and Polyfluoroalkyl Substances (sampled in 2023) | | | | | | | | |
| Analyte | | Unit | (Proposed) MCL, TT, or | (Proposed) MCLG or MRDLG | Range (Avg) | Likely Source of Contamination | | |
| PFOA | | ppt | MRDL 4 | 4 | <3.60 | Discharge from manufacturing various consumer products | | |
| PFOS PFNA | | ppt ppt | 4 NA* | 4 NA* | <3.60 <1.79 | Discharge from manufacturing various consumer products Discharge from manufacturing various consumer products | | |
| PFHxS PFBS | | ppt ppt | NA* NA* | NA* NA* | 1.86-2.10 (1.98) <1.79 | Discharge from manufacturing various consumer products Discharge from manufacturing various consumer products | | |

Discharge from manufacturing various consumer products

Discharge from manufacturing various consumer products Discharge from manufacturing various consumer products

ppt

NA*

NA*

<4.50

ppt ppt

GenX

Additional Information on Per-and Polyfluoroalkyl Substances

Your drinking water was sampled for the presence and concentration of 29 different per- and polyfluoroalkyl substances. On April 10th, 2024, EPA announced the final National Primary Drinking Water Regulation (NPDWR) for six PFAS compounds.

| Compound | Final MCL (enforceable levels) parts per trillion (ppt) (also expressed as ng/L) |
|---|--|
| PFOA | 4.0 |
| PFOS | 4.0 |
| PFHxS | 10.0 |
| PFNA | 10.0 |
| HFPO-DA (commonly known as GenX Chemicals) | 10.0 |
| Mixtures containing two or more of PFHxS, PFNA, HFPO-DA, and PFBS | 1 (unitless) Hazard Index |

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 <u>exposure</u>.

To learn more about this group of chemicals, we encourage you to read the ADEQ-provided "PFAS 101 Fact Sheet" and to visit the ADEQ website at

https://www.azdeq.gov/pfas-resources



Katie Hobbs, Governor • Karen Peters, Director azdea.qov

FACT SHEET

Publication Number: FS-23-10

PFAS 101

What are PFAS?

PFAS stands for per- and polyfluoroalkyl substances. 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. This is why they are often referred to as "forever chemicals".

Scientific studies have shown that exposure to certain PFAS can be harmful to people and animals, depending on the level and duration of exposure.

Pending PFAS Regulation

PFAS are not currently regulated nationally or in Arizona. The U.S. Environmental Protection Agency (EPA) has proposed a national regulation for PFAS in drinking water. The proposed regulation includes "Maximum Contaminant Levels" for six common PFAS, which are based on long-term, chronic exposure to low levels. EPA expects to finalize the drinking water regulation by 2024, and then water systems will be given three years to address PFAS contamination.

In addition to PFAS drinking water regulations, EPA has proposed other actions like designating some PFAS as hazardous substances, which would allow the state and federal government to hold polluters accountable. EPA also proposed aquatic life standards to help protect wildlife in our streams and rivers.

What We Are Doing to Protect Public Health:



ADEQ has conducted targeted testing since 2018 to understand the impact of PFAS in Arizona. This testing has included drinking water, groundwater, wastewater, and biosolids.



To prevent PFAS from entering the environment, we launched a pilot program to help fire departments stop using PFAS-containing aqueous film-forming foams. We have worked with 52 fire departments across Arizona to replace and safely discard almost 10,000 gallons of foam to date.

Testing Arizona's Drinking Water

EPA is requiring that public water systems serving 3,300 people or more test their drinking water for PFAS. However, most systems in Arizona serve fewer than 3,300 people. Therefore,



we are testing the smaller water systems even though the EPA does not require it. Our goal is to make sure that all regulated water systems are tested for PFAS as soon as possible.

What Happens if PFAS are Detected?

If PFAS are detected, we ask systems to follow EPA recommendations to inform customers, examine steps to limit exposure, and take more samples to assess the level, scope, and source of contamination. When a system's PFAS concentrations exceed EPA's proposed limits, we help the systems perform additional testing, begin exploring potential solutions and even apply for federal funding, if needed. We also provide systems with a PFAS Toolkit to help them meet the challenges. The toolkit includes information about funding, customer communication and next steps.

Benefits of ADEQ's Drinking Water Testing Program

ADEQ's PFAS drinking water testing program offers several benefits to small drinking water systems and their customers. It provides free PFAS testing to these systems, potentially saving them significant costs. It also offers assistance with next steps if PFAS are detected. With many systems across the country facing similar challenges, it is important that Arizona's drinking water systems begin planning to meet the new rules as soon as possible.



Want to learn more?

Visit azdeq.gov/PFAS-Resources to:

- Contact us
- Watch our Intro to PFAS in Arizona video
- Explore other resources

You can also find our PFAS Interactive Data Map at bit.ly/myPFASmap to see results from our testing since 2018.

Conservation and Drought

How do we ensure that a vital resource will be here 100 years from now?

At Global Water, we plan for the future by investing in conservation and water recycling and by applying the right water for the right use. That is why Global Water is more than a utility, we are resource managers. Our Total Water Management philosophy has resulted in over 16 billion gallons of saved water within the state of Arizona!



Water Conservation Rates

Global Water offers water conservation rates and a conservation rebate to incentivize using less water. If a customer uses a water volume below the rebate threshold, they can receive a rebate equal to 60% of the commodity rate.



Advanced Metering Infrastructure (AMI)

AMI meters utilized in our service areas send hourly water use information and alerts related to leaks and high usage through an online WaterSmart portal.



Water Conservation Program

Our conservation program at Global Water offers a variety of services and information including education programming for K12 students, adults, and landscape professionals as well as community outreach and water conservation resources for all customers.

For water conservation resources and to learn more about our conservation program, please visit https://www.gwresources.com/conservation-education.