



**2019 ANNUAL WATER
QUALITY REPORT
PWS ID # AZ04-07-070**

We are pleased to present to you this year's water quality report. Our goal is to provide you with a safe and dependable supply of drinking water.

Marvin Collins, Manager
623-972-6133

This report covers the period from
January 1, 2019 to December 31, 2019.

Este informe contiene información muy importante sobre el agua usted beber. Tradúzcalo o hable con alguien que lo entienda bien.

Definitions of Terms Used In This Report

AL = Action level- The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that water system must follow.

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.

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.

MRDL=Maximum Residual Disinfectant Level – 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.

MRDLG= Maximum Residual Disinfectant Level Goal – 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.

ND= None Detected

ppm = parts per million, can also be stated as mg/l milligrams per liter.

ppb= parts per billion, can also be stated as ug/l micrograms per liter.

pCi/L= Picocuries per liter, Measure of the radioactivity in water

Source Water Assessment Summary

Based on the information available on the hydrogeologic settings of and the adjacent land uses that are in the specified proximity of the drinking water source(s) of Sunrise Water Co., the department has given a low risk designation for the degree to which Sunrise Water Co. 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.

Further source water assessment documentation can be obtained by contacting ADEQ.

Chemical Monitoring

Note to our water users: The state requires us to monitor for certain contaminants less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of our data, such as for organic contaminants, though representative, may be more than one year old.

WATER HARDNESS

Water hardness is around 10 grains per gallon or expressed in ppm is 171.

Free water conservation material, landscape and watering information is available for our customers by contacting our office at 623-972-6133 or visits our web site www.jdcwater.com



The sources of drinking water (both tap and bottle) 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. 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.

Drinking Water Contaminants

- A. **Microbiological contaminants:** Such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. **Inorganic Contaminants:** Such as salts and metals, which can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- C. **Pesticides and Herbicides:** Such as agriculture, urban storm water runoff and residential uses that may come from a variety of sources
- D. **Organic Chemical Contaminants:** Such as synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.
- E. **Radioactive Contaminants:** That can be naturally occurring or be the result of oil and gas production and mining activities.

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. 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. Center 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.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune 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.

MESSAGE FROM THE EPA REGARDING ARSENIC HEALTH EFFECTS:

Arsenic 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. 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, and continues to research the health effects of low levels of arsenic.

MESSAGE FROM THE EPA REGARDING LEAD HEALTH EFFECTS:

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. Sunrise Water Co. 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. 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.

MESSAGE FROM THE EPA REGARDING NITRATE HEALTH EFFECTS:

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.

Our Water Source

All of the water provided by Sunrise Water Co. comes from **groundwater** pumped from the West Salt River Valley Sub-Basin. Our water system is served by seven (7) wells that are located throughout our service area. Depth to groundwater in our area is typically around 450 feet.

The frequency of testing for specific contaminants varies in accordance with the regulations of the EPA and the Arizona Department of Environmental Quality (ADEQ).

Bacteriological Monitoring (RTCR)

Seven (7) Samples are taken each month throughout the water distribution system

| | |
|----------------------|---------------------------------------|
| Detected Constituent | Total Coliform Bacteria |
| Sample Date | 2019 |
| Results | One August 2019 Detected |
| MCL | 0 |
| MCLG | 0 |
| Violation | No |
| Likely Source | Naturally present in the environment. |

| | |
|----------------------|------------------------------|
| Detected Constituent | Fecal Coliform and E.Coli |
| Sample Date | 2019 |
| Results | None Detected |
| MCL | 0 |
| MCLG | 0 |
| Violation | No |
| Likely Source | Human and animal fecal waste |

| | |
|----------------------|-----------------------------|
| Detected Constituent | Sodium |
| Sample Date | January 2019 |
| No. of Analyses | 1 |
| Lowest Level | 43 mg/l |
| Highest Level | 43 mg/l |
| MCL | 3000 mg/l |
| MCLG | NA |
| Violation | None |
| Likely Source | Naturally Occurring Mineral |

If you have questions or comments about this report or want more information, please feel free to contact our office at **623- 972-6133** or

Treatment

We disinfect our water with chlorine to help prevent bacteriological contamination

Disinfectants and Disinfection Byproducts

| | |
|----------------------|-------------------------------------|
| Detected Constituent | Chlorine |
| Sample Date | 2019 |
| Lowest Level | 0.73 ppm |
| Highest Level | 1.27 ppm |
| Annual Average | 1.16 ppm |
| MCL | 4 ppm |
| MCLG | 4 ppm |
| Violation | None |
| Likely Source | Water additive to control microbes. |

| | |
|----------------------|---|
| Detected Constituent | Total Trihalomethanes |
| Sample Date | July 25, 2019 |
| No. of Analyses | 2 |
| Lowest Level | 5.5 ppb |
| Highest Level | 25.7 ppb |
| MCL | 80 ppb |
| MCLG | NA |
| Violation | None |
| Likely Source | By-Product of drinking water chlorination |

| | |
|----------------------|---|
| Detected Constituent | Total Haloacetic Acids (Five) |
| Sample Date | July 25, 2019 |
| No. of Analyses | 2 |
| Lowest Level | <2 ppb |
| Highest Level | 8.7 ppb |
| MCL | 60 ppb |
| MCLG | NA |
| Violation | None |
| Likely Source | By-Product of drinking water chlorination |

Inorganic Constituents Detected

| | |
|----------------------|--|
| Detected Constituent | Arsenic |
| Sample Date | 2019 |
| Lowest Level | 4.9 ppb |
| Highest Level | 8.2 ppb |
| MCL | 10 ppb |
| MCLG | NA |
| Violation | None |
| Likely Source | Erosion of natural deposits; runoff from orchards; runoff from glass and electronic production wastes. |

Inorganic Constituents Detected

| | |
|----------------------|---|
| Detected Constituent | Barium |
| Sample Date | January 2019 |
| Lowest Level | 0.016 mg/l |
| Highest Level | 0.047 mg/l |
| MCL | 2 ppm |
| MCLG | 2 ppm |
| Violation | None |
| Likely Source | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits. |

| | |
|----------------------|---|
| Detected Constituent | Chromium |
| Sample Date | January 2019 |
| Lowest Level | 1.7 ppb |
| Highest Level | 1.7 ppb |
| MCL | 100 ppb |
| MCLG | 100 ppb |
| Violation | None |
| Likely Source | Discharge from steel and pulp mills; erosion of natural deposits. |

| | |
|---|--|
| Detected Constituent | Fluoride |
| Sample Date | January 2019 |
| Lowest Level | 0.17 mg/l |
| Highest Level | 0.17 mg/l |
| MCL | 4.0 mg/l |
| MCLG | 4.0 mg/l |
| Violation | None |
| Likely Source | Erosion of natural deposits; discharge from fertilizer and aluminum factories. |
| Sunrise Water Co. does not add fluoride to the water. | |

| | |
|----------------------|--|
| Detected Constituent | Nitrate |
| Sample Date | January 2019 |
| Lowest Level | 1.5 mg/l |
| Highest Level | 4.0 mg/l |
| MCL | 10 mg/l |
| MCLG | 10 mg/l |
| Violation | None |
| Likely Source | Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits. |

VOCs (Volatile Organic Chemicals)

Date Last Sampled: July 2019
Our sampling did not detect the presence of any VOCs.

SOCs (Synthetic Organic Chemicals)

Date Last Sampled: July 2019
Our sampling did not detect the presence of any SOC's

Lead and Copper Monitoring

| | |
|--|--------------------|
| Date Last Sampled for Lead: | July 2019 |
| 90 th Percentile for Lead: | <0.005 mg/l |
| Action Level | 0.015 mg/l |
| Violation: | None |
| Likely Source: | Household Plumbing |
| Number of Sites Exceeding Lead Action Level: | None |

| | |
|--|--------------------|
| Date Last Sampled for Copper: | July 2019 |
| 90 th Percentile for Copper: | 0.310 mg/l |
| Action Level | 1.33 mg/l |
| Violation: | None |
| Likely Source: | Household Plumbing |
| Number of Sites Exceeding Copper Action Level: | None |

Radiochemical Analysis

| | |
|---------------|-----------------------------|
| Gross Alpha | |
| Sample Date | January 2019 |
| Lowest Level | < 3 pCi/l |
| Highest Level | <3 pCi/l |
| MCL | 15 pCi/l |
| MCLG | NA |
| Violation | None |
| Likely Source | Erosion of natural deposits |

| | |
|-------------------------|-----------------------------|
| Combined Radium 226/228 | |
| Sample Date | January 2019 |
| Lowest Level | <1 pCi/l |
| Highest Level | <1 pCi/l |
| MCL | 5 pCi/l |
| MCLG | NA |
| Violation | None |
| Likely Source | Erosion of natural deposits |

Sunrise Water Co.
Located on the second floor at
9098 W. Pinnacle Peak Road
Peoria, Arizona 85383.
Office 623-972-6133
Fax 623-566-8925

Report Date May 2020