

# Consumer Confidence Report for Calendar Year **2022**

Este informe contiene información muy importante sobre el agua usted bebe.  
Tradúscalo ó hable con alguien que lo entienda bien.

Public Water System ID Number	Public Water System Name		
AZ04-13024	Clarkdale Municipal Water System		
Contact Name and Title	Phone Number	E-mail Address	
Lisa Waldschmidt, Water Resource Manager	928-202-2152	Lisa.waldschmidt@clarkdale.az.gov	
We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our regularly scheduled meetings, please contact Lisa Waldschmidt at <u>928-202-2152</u> for additional opportunity and meeting dates and times.			

## 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 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 which 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.

### Our water source(s):

Groundwater well: Haskell Springs – EPDS001  
Groundwater well: Mountain Gate – EPDS003

## Consecutive Connection Sources

A public water system that receives some or all of its finished water from one or more wholesale systems by means of a direct connection or through the distribution system of one or more consecutive systems. Systems that purchase water from another system report regulated contaminants detected from the source water supply in a separate table.

**PWS # AZ04-13-025, City of Cottonwood provides us a consecutive connection source of water.**

## Drinking Water Contaminants

**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 that 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, which are by-products of industrial processes and petroleum production, and also may 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.

## Vulnerable Population

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.

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 visit the EPA *Safe Drinking Water website* at [www.epa.gov/sdwa](http://www.epa.gov/sdwa).

## Source Water Assessment

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

## Definitions

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water

**Level 1 Assessment:** A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present

**Level 2 Assessment:** 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 was present

**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 risk to health

**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

**Minimum Reporting Limit (MRL):** The smallest measured concentration of a substance that can be reliably measured by a given analytical method

**Millirems per year (MREM):** A measure of radiation absorbed by the body

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

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

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

**Million fibers per liter (MFL)**

**Picocuries per liter (pCi/L):** Measure of the radioactivity in water

**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)

ppm x 1000 = ppb

**ppq:** Parts per quadrillion or Picograms per liter (pg/L)

ppb x 1000 = ppt

ppt x 1000 = ppq

## Lead Informational Statement:

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. **Clarkdale Municipal Water 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. 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](http://www.epa.gov/safewater/lead).

**Water Quality Data – Regulated Contaminants**

Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Source of Contamination	
E. Coli	N	0	0	0	0	Human and animal fecal waste	
Fecal Indicator (coliphage, enterococci and/or E. coli)	N	0	0	0	0	Human and animal fecal waste	
Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine/Chloramine (ppm)	N	0.659	0.502 - 0.802	4	4	1-12/22	Water additive used to control microbes
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Haloacetic Acids (HAA5) (ppb)	N	<2	<2	60	N/A	8/2022	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N	4.05	2.6 - 5.5	80	N/A	8/2022	Byproduct of drinking water disinfection
Lead & Copper	MCL Violation Y or N	90 <sup>th</sup> Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	N	0.21	0	1.3	1.3	9/2020	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	<5.0	0	15	0	9/2020	Corrosion of household plumbing systems; erosion of natural deposits
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Antimony (ppb)	N	<1	<1	6	6	4/2021	Discharge from petroleum refineries; fire retardants; ceramics, electronics and solder
Arsenic <sup>1</sup> (ppb)	N	RAA 5.77	4.4 - 11	10	0	11/21 & 1,4,7,8, 10/2022	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Asbestos (MFL)	N	<0.2	<0.2	7	7	4/2021	Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	N	0.019	<0.002 - 0.019	2	2	4/2021	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	N	<1	<1	4	4	4/2021	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	N	<0.5	<0.5	5	5	4/2021	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	N	13	<1 - 13	100	100	4/2021	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)	N	<25	<25	200	200	4/2021	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	N	0.034	0.016 - 0.034	4	4	4/2021	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)	N	<0.2	<0.2	2	2	4/2021	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate <sup>2</sup> (ppm)	N	0.83	0.39 - 0.83	10	10	8/2022	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

<b>Nitrite (ppm)</b>	N	<0.05	<0.05	1	1	4/2021	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<b>Selenium (ppb)</b>	N	<5	<5	50	50	4/2021	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
<b>Sodium (ppm)</b>	N	74	10 - 74	N/A	N/A	4/2021	Erosion of natural deposits
<b>Thallium (ppb)</b>	N	<1	<1	2	0.5	4/2021	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

<sup>1</sup> **Arsenic** is a mineral known to cause cancer in humans at high concentration 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.

<sup>2</sup> **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.

<b>Synthetic Organic Chemicals (SOC)</b>	<b>TESTED 4 &amp; 7/2021 – ALL CONTAMINANTS BELOW DETECTABLE LIMITS</b>
<b>Volatile Organic Chemicals (VOC)</b>	<b>TESTED 4/2021 – ALL CONTAMINANTS BELOW DETECTABLE LIMITS</b>
<b>Radionuclides</b>	<b>TESTED 4/2021 – ALL CONTAMINANTS BELOW DETECTABLE LIMITS</b>
<b>No violations or assessments required in 2022</b>	

## JUST A REMINDER

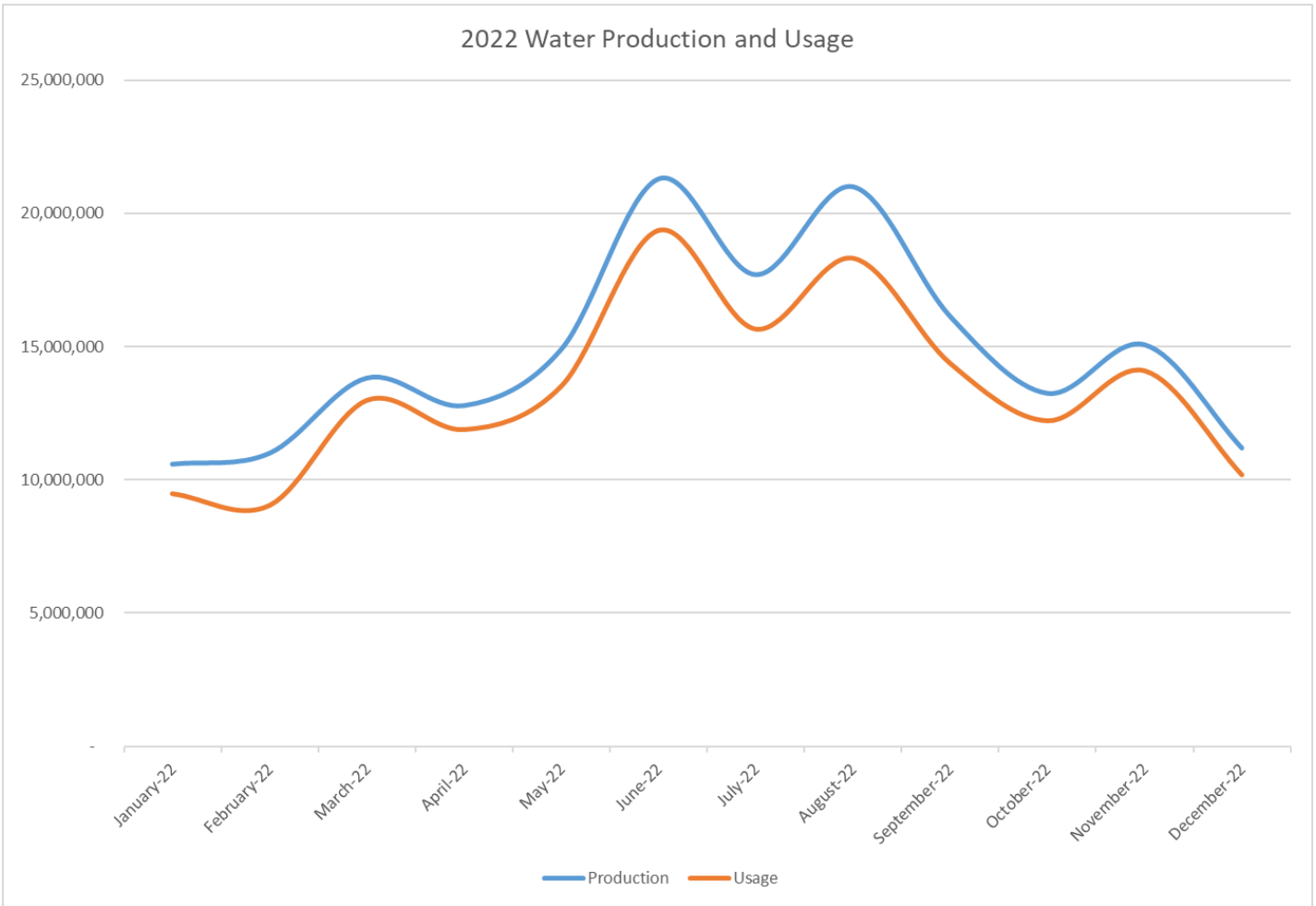
The Town of Clarkdale will begin Demand Reduction Strategy I "Water Alert" beginning May 1<sup>st</sup> through September 30<sup>th</sup> .

Outdoor water usage shall not occur between the hours of 9:00 am and 5:00 pm. Watering days shall be coordinated with your address. Even numbered addresses may irrigate on Wednesday, Friday and Sunday. Odd numbered addresses may irrigate on Tuesday, Thursday and Saturday. For places where there is no discernable address, the even date schedule should be followed (rights-of-way, medians, etc). No irrigation shall be allowed on Monday.

For a full Drought Plan Report, please see our website at [www.clarkdale.az.gov](http://www.clarkdale.az.gov) or stop in at the Utilities Department, 890 Main Street, Clarkdale, AZ for a copy.

## Clarkdale Water Usage

Below is a chart showing water production and usage in Clarkdale for 2022. Typically, high usage occurs during the summer months due to outside water use. Low usage from December through March is typically just indoor use.



**Water Tips**

Experience shows that most leaks are from toilets and irrigation systems. Annual inspection and maintenance of irrigation systems is advised. The Utilities Department has Leak Detection Kits available that can guide you through some simple procedures to test your toilets for leaks, and when found, simple ways to fix those leaks. The kit also has information on fixing faucets.

“La información contenida en este relato contiene datos importantes con respecto a la calidad del agua proporcionada por el Municipio de Clarkdale. Si usted quisiera recibir una copia de este informe en español, por favor llame 928-639-2520 para solicitar una copia.”