

Consumer Confidence Report for Calendar Year 2019

Public Water System ID Number	Public Water System Name				
AZ04-01004	EAGAR MUNICIPAL WATER				
Contact Name and Title	•	Phone Number	E-mail Address		
WES WHITING		928-245-5914	w.whiting@eagaraz.gov		
We want our valued customers to be informed about their water quality.					

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 pickup 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): WHITE MOUNTAIN AQUIFER/COON SPRINGS

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 call the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

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.

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. **EAGAR MUNICIPAL WATER** 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.

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	N/A	0	0	Human and	d animal fecal waste	
Fecal Indicator (From GWR source) (coliphage, enterococci and/or E. coli)	N	0	N/A	0	0	Human and	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			4	0		Water additive used to control microbes	
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination	
Haloacetic Acids (HAA5) (ppb)	N	3.4	3.4	60	N/A	8/19	Byproduct of drinking water disinfection	
Total Trihalomethanes (TTHM) (ppb)	N	11	11	80	N/A	8/19	Byproduct of drinking water disinfection	
Lead & Copper	MCL Violation Y or N	90 th Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination	
Copper (ppm)	N	0.125	0	1.3	1.3	9/17	Corrosion of household plumbing systems; erosion of natural deposits	
Lead (ppb)	N	2.0	0	15	0	9/17	Corrosion of household plumbing systems; erosion of natural deposits	
Nitrite (ppm)	N	.28	<0.128	1	1	3/20	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	

¹ **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.

² **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.

Synthetic Organic Chemicals (SOC)	MCL Violation Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
2,4-D (ppb)	N	<0.01	<0.01-0.01	70	70	3/18/19	Runoff from herbicide used on row crops
2,4,5-TP (a.k.a. Silvex) (ppb)	N	<0.02	<0.020.02	50	50	3/18/19	Residue of banned herbicide
Alachlor (ppb)	N	<0.01	<0.01-0.01	2	0	3/18/19	Runoff from herbicide used on row crops
Atrazine (ppb)	N	<0.005	<0.005-0.005	3	3	3/18/19	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)	N	<0.02	<0.02-0.02	200	0	3/18/19	Leaching from linings of water storage tanks and distribution lines
Carbofuran (ppb)	N	<0.05	<0.05-0.05	40	40	3/18/19	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	N	<0.01	<0.01-0.01	2	0	3/18/19	Residue of banned termiticide
Dalapon (ppb)	N	<0.1	<0.1-0.1	200	200	3/18/19	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)	N	<0.06	<0.06-0.06	400	400	3/18/19	Discharge from chemical factories
Dibromochloropropane (ppt)	N	<0.001	<0.001001	200	0	3/18/19	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	N	<0.002	<0.002-0.002	7	7	3/18/19	Runoff from herbicide used on soybeans and vegetables
Diquat (ppb)	N	<0.04	<0.04-0.04	20	20	3/18/19	Runoff from herbicide use
Endothall (ppb)	N	<0.5	<.05-0.5	100	100	3/18/19	Runoff from herbicide use
Endrin (ppb)	N	<0.001	<0.001-0.001	2	2	3/18/19	Residue of banned insecticide
Glyphosate (ppb)	N	<0.6	<0.6-0.6	700	700	3/18/19	Runoff from herbicide use
Heptachlor (ppt)	N	<0.01	<0.01-0.01	400	0	3/18/19	Residue of banned termiticide
Heptachlor epoxide (ppt)	N	<0.01	<0.01-0.01	200	0	3/18/19	Breakdown of heptachlor
Hexachlorobenzene (ppb)	N	<0.005	<0.005-0.005	1	0	3/18/19	Discharge from metal refineries and agricultural

							chemical factories
Hexachlorocyclo pentadiene (ppb)	N	<0.005	<0.005-0.005	50	50	3/18/19	Discharge from chemical factories
Lindane (ppt)	N	<0.01	<0.01-0.01	200	200	3/18/19	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	N	<0.005	<0.005-0.005	40	40	3/18/19	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,
Oxamyl (a.k.a. Vydate) (ppb)	N	<0.005	<0.005-0.005	200	200	3/18/19	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
Pentachlorophenol (ppb)	N	<0.004	<0.004-0.004	1	0	3/18/19	Discharge from wood preserving factories
Picloram (ppb)	N	<0.01	<0.01-0.01	500	500	3/18/19	Herbicide runoff
Simazine (ppb)	N	<0.005	<0.005-0.005	4	4	3/18/19	Herbicide runoff
Toxaphene (ppb)	N	<0.005	<0.005-0.005	3	0	3/18/19	Runoff/leaching from insecticide used on cotton and cattle

Violation Summary (for MCL, MRDL, AL, TT, or Monitoring & Reporting Requirement)

Violation Type	Explanation, Health Effects	Time Period	Corrective Actions		
LATE MONITORING RESULTS	SAMPLES DELAYED	N/A	SAMPLES RECEIVED		