

ARIZONA WATER COMPANY

- 2014 ANNUAL WATER QUALITY REPORT FOR APACHE JUNCTION, ARIZONA, PWSID #11-004 -

This report contains important information about your drinking water.
Este informe contiene información importante sobre su agua potable.
Tradúzcalo o hable con alguien que lo entienda bien.

Arizona Water Company provides groundwater to its Apache Junction customers from wells located throughout the Apache Junction area.

All water samples are collected by state-certified employees of Arizona Water Company. Samples are analyzed by state-certified independent laboratories and the results are forwarded to the Arizona Department of Environmental Quality ("ADEQ"). The following report provides detailed information about the quality of the water delivered to customers. The water supplied by Arizona Water Company complies with all state and federal safe drinking water standards and regulations.

DETECTED WATER QUALITY CONSTITUENTS - GROUNDWATER

Primary Standards							
Water Quality Constituent	Units	MCLG	MCL	Range of Levels Detected	Sample Year	Typical Source of Detected Constituent	
Inorganics							
Arsenic	ppb	0	10	5 - 8 Highest Running Annual Average - 6	2014	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes	
Barium	ppm	2	2	0.05	2012	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits	
Chromium, Total	ppb	100	100	6 - 9	2012	Discharge from steel and pulp mills; erosion of natural deposits	
Fluoride	ppm	4	4	0.5 - 0.8	2012	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	
Nitrate (as Nitrogen)	ppm	10	10	1 - 2	2014	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits	
Selenium	ppb	50	50	4 - 6	2012	Discharge from petroleum and metal refineries, erosion of natural deposits, discharge from mines	
Radiological							
Alpha Emitters	pCi/L	0	15	3 - 5	2009	Erosion of natural deposits	
Disinfectant / Disinfection Byproducts							
Water Quality Constituent	Units	MCLG (MRDLG)	MCL (MRDL)	Average Level Detected	Range of Levels Detected	Sample Year	Typical Source of Detected Constituent
Chlorine Residual	ppm	(4)	(4)	1.4	0.4 - 2.1	2014	Drinking water disinfection
Haloacetic Acids (five)	ppb	NA	60	9	ND - 15	2014	Byproduct of drinking water disinfection
Total Trihalomethanes	ppb	NA	80	29	5 - 50	2014	Byproduct of drinking water disinfection
Additional Constituents (Unregulated)							
Sodium	ppm	NS	NS	189	163 - 216	2012	Unknown
Chlorate	ppb	NS	NS	219	44 - 400	2013	Agricultural defoliant or desiccant
Hexavalent Chromium	ppb	NS	NS	9	8 - 10	2013	Naturally-occurring element; used in making steel and other alloys
Molybdenum	ppb	NS	NS	14	5 - 18	2013	Naturally-occurring element found in ores and present in plants, animals, and bacteria
Strontium	ppb	NS	NS	1161	930 - 2000	2013	Naturally-occurring element
Vanadium	ppb	NS	NS	6	5 - 7	2013	Naturally-occurring elemental metal
Lead and Copper Monitoring							
Water Quality Constituent	Units	MCLG	Action Level	90 th Percentile of Sample Results	Number of Samples That Exceeded the Action Level	Sample Year	Typical Source of Detected Constituent
Copper	ppm	1.3	1.3	0.2	0	2013	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	ppb	0	15	2	0	2013	Internal corrosion of household water plumbing systems, erosion of natural deposits

Your drinking water complies with the United States Environmental Protection Agency's ("USEPA") safe drinking water standard for arsenic, though it contains low levels of arsenic. USEPA's safe drinking water standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. USEPA continues to research the health 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.

Note: In addition to the constituents listed in this report, Arizona Water Company conducted monitoring for over 100 additional constituents and the results show none of those constituents were detected in the water. Data presented are from the most recent testing done in accordance with applicable regulations. Some constituents are monitored less frequently than once a year because either their

concentrations do not change frequently or they are not likely to be detected. Therefore, some of the water quality testing data contained in this report, although representative, may be more than one year old. If you have questions about this water quality report please contact Regina Lynde, Environmental Compliance Supervisor, Arizona Water Company, P.O. Box 29006, Phoenix, Arizona 85038-9006; telephone (602) 240-6860 or e-mail mail@azwater.com.

In 2001, the ADEQ completed a Source Water Assessment of the water sources used by Arizona Water Company's Apache Junction water system. ADEQ reviewed the adjacent land uses that may pose a potential risk to the water sources. The result of the Assessment was a low risk to the water sources.

Residents can help protect water sources by practicing good septic system maintenance, taking hazardous household chemicals to hazardous material collection sites, and limiting pesticide and fertilizer use. The complete Assessment is available for inspection at ADEQ, 1110 West Washington Street, Phoenix, Arizona 85007, between the hours of 8:00 a.m. and 5:00 p.m. Electronic copies are available from ADEQ at dml@azdeq.gov. For more information visit ADEQ's Source Water Assessment and Protection Unit website at: www.azdeq.gov/envirom/water/dw/swap.html.

The USEPA and ADEQ require Arizona Water Company to provide the following information:

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some constituents. The presence of constituents does not necessarily indicate that water poses a health risk. More information about constituents and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to constituents 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. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial constituents are available from the 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, radiological material, and can pick up substances resulting from the presence of animals or from human activity.

Constituents that may be present in source water include:

- Microbials, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganics, 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.
- Organics, 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.
- Radiological material, 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, USEPA prescribes regulations which limit the amount of certain constituents in water provided by public water systems. FDA regulations establish limits for constituents in bottled water which must provide the same protection for public health.

DEFINITIONS, ABBREVIATIONS, AND UNIT DESCRIPTIONS:

CDC	=	United States Centers for Disease Control and Prevention
FDA	=	United States Food and Drug Administration
MCL	=	Maximum Contaminant Level, the highest level of a constituent 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 constituent in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
MRDL	=	Maximum Residual Disinfection Level, the highest level of a drinking water disinfectant allowed in drinking water.
MRDLG	=	Maximum Residual Disinfection Level Goal, the level of a drinking water disinfectant in drinking water below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of using disinfectants to control microbial constituents.
NA	=	None adopted
ND	=	None detected
NS	=	No standard
pCi/L	=	Picocuries per liter
ppb	=	Parts per billion, or micrograms per liter (µg/l)
ppm	=	Parts per million, or milligrams per liter (mg/l)