Agua Fria

Typical Water Quality Information

PWSID Number: 04-07-695

Area Served: Western City of Surprise, Grand and 303 Freeway corridors from the north and east, south to the I-10 Freeway and the community of Verrado.

Where Does My Water Come From?

Agua Fria water comes from several sources. The water that Arizona American Water provides comes from the Colorado River via the Central Arizona Project (CAP) and 34 groundwater wells.

The CAP water is principally Colorado River water delivered from Lake Havasu via the CAP Canal. Agua Fria water is removed from the Beardsley canal, which interconnects with the CAP canal directly.

All well water comes from groundwater pumped from the West Salt River Valley (WSRV) Sub-Basin. The WSRV Sub-Basin is a broad, gently sloping alluvial plain that is bounded on the north by the Hieroglyphic Mountains and Hedgpeth Hills and on the west by the White Tank Mountains. Along the eastern boundary of the WSRV Sub-Basin are the Union Hills, Phoenix Mountains, and Papago Buttes. South Mountains, Estrella Mountains, and Buckeye Hills define the southern limits of the WSRV Sub-Basin.

Depth to groundwater in the WSRV Sub-Basin varies from 150 to over 500 feet. Sources of groundwater include natural recharge from flood flows in streams and along mountain fronts, and incidental recharge from agricultural and urban irrigation, canals, effluent, and artificial lakes.

The water supply is distributed for residential and commercial use.

Average amount of water supplied to customers on a daily basis

16.2 million gallons per day

Parameter	Average or Range	Comments
pH	7.4 – 8.9	A measurement of water acidity, 7.0 is neutral
Total Hardness (as CaCO3) mg/L	34.2 – 274	No MCL - Naturally occurring
Total Hardness (as CaCO3) grains/gallon	2 – 16 gpg	No MCL - Naturally occurring
Fluoride mg/L	0.3 – 0.4	MCL = 4.0 mg/L
Sodium mg/L	75 – 95	No MCL – Informational only
Iron	ND	Secondary Standard Limit = 0.3 mg/L
Type of disinfection	Chlorination	Water additive used to control microbes
Disinfectant residual level in the distribution system (average) mg/L	0.8	Maximum Residual Disinfectant Level based on Running Annual Avg. < or = 4.0 mg/L
Lead [90th percentile result] mg/L	2	Action Level = 15 µg/L
Copper [90th percentile result] mg/L	0.032	Action Level = 1.3 mg/L
Nitrate as Nitrogen mg/L	1.2 – 6.45	MCL = 10 mg/L
Arsenic µg/L	1 – 8	MCL = 10 µg/L
Sulfate mg/L	216 -248	No MCL – Informational only

Definitions

- mg/L – milligrams per liter; one milligram per liter is equal to one part per million, which is approximately the same as 1 second in 11.5 days
- µg/L – micrograms per liter; one microgram per liter is equal to one part per billion, which is approximately the same as 1 second in 31.7 years
- N/A – not applicable
- ND – not detected
- MCL – Maximum Contaminant Level – the highest level of a contaminant allowed in drinking water under State and Federal regulations

For more information about water quality in your area, please contact Kevin Figgins at (623)780-3788

Other inquiries should be directed to our Customer Service Center at 1-800-383-0834