

EPCOR WATER

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EPCOR WATER

epcor.com

YOUR 2011 WATER QUALITY REPORT

MOHAVE DISTRICT

PWSID 04-08-037, 04-08-062, 04-08-333, 04-08-137

Safety. Quality. Community. You'll hear these words spoken often around EPCOR.

Just as we want our employees to return home to their families each night, safe and sound, we're also committed to providing our communities with water that's both high quality and safe. That's why you're receiving this report.

Every year we'll send you a document like this one that details the results obtained from testing your water in state-certified drinking water analysis labs. And we'll tell you what that analysis means.

2011 results show that we supply you with water that surpasses or meets all federal and state primary drinking water quality regulations.

We're dedicated to upholding these results. As a local employer, community member and your neighborhood utility provider, taking care of you and your water supply is serious business.

We know that EPCOR's a new neighbor for you. Since acquiring American Water's Arizona and New Mexico operations on Jan. 31, 2012 we've been enjoying getting to know you. In turn, I'd like to share a little bit about us.

For EPCOR, being a water and wastewater utility is more than providing a service. Your community is home to us too. You live here, our employees live here. The quality of life—and the quality of the water—is important to us at a personal level.

If you have any questions about this report, our customer care team is here to help: 1-800-383-0834 (AZ) / 1-866-430-0824 (NM). You can also learn more about being water wise at epcor.com.

Thank you for caring about your water.



Joe Gysel
President, EPCOR Water USA



You want to know what's in the water you're drinking

And as your water service provider, we're committed to ensuring the quality and safety of that water. That's why each year you'll receive an annual water quality report from us. We hope it will help you understand your community's water a little better, what we're doing to protect it, and how you can help, too.

What will I find in this report?

This report complies with state and U.S. Environmental Protection Agency (EPA) regulations.

In it you'll find information on:

- Where your water comes from
- Protecting your water
- What's in your water

The information in this report is compiled from data from state labs certified in drinking water analysis.

Read this report – and share it!

Your first step in understanding your community's water is to read this report. But it's also important to share your learnings with others – especially those who do not receive an EPCOR Water bill and may not receive this report directly.

If you're one of the following groups, please share the report with water users at your location: **Landlords, Businesses, Schools, Hospitals and other groups.**

Questions?

EPCOR Water Customer Care Center:
1-800-383-0834 (AZ) / 1-866-430-0824 (NM)

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien. **1-800-383-0834 (AZ) / 1-866-430-0824 (NM).**



ABOUT YOUR WATER

MOHAVE DISTRICT

About your district

- **EPCOR provides water service** to approximately 16,000 billed customers, serving a large portion of the community of Bullhead City in Mohave County.
- **The service area also includes** the stand-alone systems of Camp Mohave and Rio Vista Ranches located just outside of the Bullhead City limits to the south in unincorporated parts of the county.
- **In addition, the Mohave district provides water service** to an independent water system (Gateway) approximately 40 miles south of Bullhead City.

Where your water comes from

- Groundwater pumped from the Lake Mohave Basin.

Groundwater wells – and protecting them together

The Lake Havasu Basin

- A narrow strip of land bounded by the Colorado River on the west and the Black Mountains to the east.
- Groundwater is found in the alluvial sand, silt and gravel deposits adjacent to the Colorado River and Lake Mohave.

How we protect your groundwater

We protect the sources by ensuring proper well construction and system operations and management.

How you can help

Take hazardous household chemicals to hazardous material collection days and limit your pesticide and fertilizer use.

For information on household hazardous material collection days in your area: **Arizona Department of Environmental Quality at 602-771-4459.**

Notice of Source Water Assessment

Camp Mohave, Lake Mohave Highlands

In 2004 the Arizona Department of Environmental Quality completed a source water assessment for the one well used by Arizona American Water-Camp Mohave* and two wells used at Lake Mohave Highlands. The Assessment reviewed the adjacent land uses that may pose a potential risk to the sources. These risks include, but are not limited to, gas stations, landfills, dry cleaners, agriculture fields, wastewater treatment plants and mining activities. Once ADEQ identified the adjacent land uses, they were ranked as to their potential to affect the water sources. The results of the assessments found that there were no adjacent land uses in the vicinity of either of the wells.

The complete Assessment is available for inspection at the Arizona Department of Environmental Quality, 1110 W. Washington, Phoenix, AZ 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 please contact **ADEQ at 602-771-4644** or visit www.azdeq.gov/environ/water/dw/swap.html.

* Arizona American Water Company-Camp Mohave was acquired by EPCOR Water (USA) Inc. on Jan. 31, 2012.

WHAT YOU CAN EXPECT TO FIND IN YOUR WATER

Sources of drinking water



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 can acquire naturally occurring minerals. In some cases it can also acquire radioactive material and substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk.

More information about contaminants and potential health effects can be obtained by calling the **EPA's Safe Drinking Water Hotline** at **1-800-426-4791**.

Ensuring your water is safe

To ensure that tap water is safe to drink, the EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems.

To ensure bottled water is safe to drink, U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water.

Substances that may be present in source water

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may 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.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban stormwater runoff and septic systems.

Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.



WHAT YOU CAN EXPECT TO FIND IN YOUR WATER

Special health information

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 may be particularly at risk from infections. These people should seek advice about drinking water from their healthcare providers. EPA/



CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the **Safe Drinking Water Hotline** at **1-800-426-4791**.

Lead

Arizona American Water Company monitored the water for lead and copper in 2010 at 30 residences throughout the communities and met the federal lead and copper standards. The 30 houses sampled were representative of the types of houses throughout the systems. If you weren't part of the representative sampling and are concerned about elevated lead levels in your home's water, you may wish to flush your tap for 30 seconds to 2 minutes before using the water.

Questions?

U.S. EPA Safe Drinking Water Hotline:
1-800-426-4791



YOUR ROLE IN PROTECTING YOUR COMMUNITY'S WATER

Backflow prevention

Under state law, you are responsible for testing and maintaining your backflow device in working order. EPCOR Water has a backflow prevention program that ensures proper installation and maintenance of thousands of backflow prevention devices throughout our system.

What's a backflow device and what does it do?



Your backflow device is an essential tool in protecting the water supply from possible contamination.

Backflow prevention devices range from vacuum breakers on household hose bibs to

large commercial reduced-pressure principal devices found throughout our system.

These devices ensure hazards originating on customers' property and from temporary connections do not impair or alter the water in our water distribution system. Return of any water to our water distribution system after the water has been used for any purpose on the customer's premises or within the customer's piping system is unacceptable.

Home water treatment units

Failure to perform maintenance on your home water treatment unit can result in poor water quality.

If you installed a home treatment system such as a water softener or reverse osmosis system to improve taste or odor, remember to follow the manufacturer's instructions on operation and maintenance. For more information,

contact the manufacturer of your treatment system for maintenance instructions or assistance.

Tips for everyday pollution prevention

- **Use fertilizers and pesticides** sparingly and as directed by the manufacturer.
- **Pick up after your pet** and do not dispose of any waste in washes, canals or riverbeds.
- **Only wash your car on a lawn** or other unpaved surface, or use a commercial car wash.
- **Always use a nozzle** when using your garden hose around the home. Do not let the water free flow.
- **Maintain vehicles, machinery and equipment** to be free of leaks.
- **Sweep up dirt and debris**, rather than using a hose.
- **Minimize your purchase and use** of hazardous products. Dispose of unused quantities properly.



DEFINITION OF TERMS

gpg (grains per gallon): Used to describe the dissolved hardness minerals contained in water and is a unit of weight that equals 1/7,000 of a pound.

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.

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

AL (Action Level): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

N/A: Not Applicable.

ND: None Detected.

NTU: Nephelometric turbidity units.

pCi/L (Picocuries per Liter): Measurement of the natural rate of disintegration of radioactive contaminants in water (also beta particles).

ppb (Parts per Billion): One part substance per billion parts water (or micrograms per liter).

ppm (Parts per Million): One part substance per million parts water (or milligrams per liter).

ppt (Parts per Trillion): One part substance per trillion parts water (or nanograms per liter).

UCMR (Unregulated Contaminant Monitoring Rule): Unregulated substances are measured, but maximum contaminant levels have not been established by the government.

TTHM (Total Trihalomethanes): Consist of Chloroform, Bromoform, Bromodichloromethane and Dibromochloromethane.

HAA5 (Haloacetic Acids): Consist of Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Bromoacetic Acid and Dibromoacetic Acid.

SMCL (Secondary Maximum Contaminant Level): Non-enforceable guidelines regulating contaminants that may cause cosmetic effects or aesthetic effects in drinking water.

Total Dissolved Solids: An overall indicator of the amount of minerals in water.

MNR: Monitored, not regulated.

WHAT'S IN YOUR WATER

How to read your water quality table

Below, you'll see an analysis of your drinking water. Here's how to read this table:

Start here and read across.	2011 or year prior.	The goal level for that substance (may be lower than allowed).	Highest level of substance allowed.	Highest amount that was found.	Highest and lowest amounts found.	"Yes" means the amount found is below gov't requirements.	Where substance usually originates.
Substance (units)	Year Sampled	MCLG	MCL	Highest Amount Detected	Range of Detections	Compliance Achieved	Typical Sources

Your water quality table

The data shown in the water quality tables below are results from commercial laboratories certified in drinking water analysis by the State of Arizona Department of Health Services. The table shows what substances were detected in your drinking water during 2011 or the last required sampling period.

Regulated Substances Measured on the Water Leaving the Treatment Facility — Desert Foothills/Laughlin Ranch

Substance (units)	Year Sampled	MCLG	MCL	Highest Amount Detected	Range of Detections	Compliance Achieved	Typical Sources
Alpha Emitters (pCi/L)	2010	0	15	3.8	3.8	yes	Erosion of natural deposits
Arsenic (ppb)	2007	0	10	4.5	4.5	yes	Erosion of natural deposits
Chromium (ppb)	2007	100	100	14.8	14.8	yes	Erosion of natural deposits
Combined Radium (pCi/L)	2010	0	5	3.8	3.8	yes	Erosion of natural deposits
Fluoride (ppm)	2007	4.0	4.0	1.2	1.2	yes	Erosion of natural deposits
Nitrate (ppm)	2011	10	10	3.5	3.5	yes	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppm)	2007	0.05	0.05	0.002	0.002	yes	Erosion of natural deposits
Total Coliform Bacteria	2011	0	5% of monthly samples	1	ND-1	yes	Naturally present in the environment

WHAT'S IN YOUR WATER

Regulated Substances Measured on the Water Leaving the Treatment Facility — Camp Mohave

Substance (units)	Year Sampled	MCLG	MCL	Highest Amount Detected	Range of Detections	Compliance Achieved	Typical Sources
Alpha Emitters (pCi/L)	2009	0	15	9.8	9.8	yes	Erosion of natural deposits

Regulated Substances Measured on the Water Leaving the Treatment Facility — Lake Mohave Highlands

Substance (units)	Year Sampled	MCLG	MCL	Highest Amount Detected	Range of Detections	Compliance Achieved	Typical Sources
Alpha Emitters (pCi/L)	2009	0	15	9.2	9.2	yes	Erosion of natural deposits
Nitrate (ppm)	2011	10	10	0.33	0.33	yes	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Regulated Substances Measured on the Water Leaving the Treatment Facility — Rio Vista Ranches

Substance (units)	Year Sampled	MCLG	MCL	Highest Amount Detected	Range of Detections	Compliance Achieved	Typical Sources
Alpha Emitters (pCi/L)	2011	0	15	11.4	2.8-11.4	yes	Erosion of natural deposits
Arsenic (ppb)	2010	0	10	9.1	ND-9.1 ¹	yes	Erosion of natural deposits
Barium (ppm)	2010	2	2	0.72	ND-0.72	yes	Erosion of natural deposits
Chromium (ppb)	2010	100	100	11	ND-11	yes	Erosion of natural deposits
Combined Radium (pCi/L)	2011	0	5	1.2	ND-1.2	yes	Erosion of natural deposits
Fluoride (ppm)	2010	4.0	4.0	2.8	ND-2.8 ²	yes	Erosion of natural deposits
Nitrate (ppm)	2011	10	10	5.3	0.85-5.3 ³	yes	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Selenium (ppm)	2010	0.05	0.05	0.0032	ND-0.0032	yes	Erosion of natural deposits

WHAT'S IN YOUR WATER

Regulated Substances Measured in the Distribution System — Desert Foothills/Laughlin Ranch

Substance (units)	Year Sampled	MCLG/MRDLG	MCL/MRDL	Annual Average	Range of Detections	Compliance Achieved	Typical Source
TTHMs [Total trihalomethanes] (ppb)	2011	N/A ⁴	80	0.9	0.9	yes	By-product of drinking water disinfection
HAA ₅ (ppb)	2011	N/A ⁴	60	ND	ND	yes	By-product of drinking water disinfection
Chlorine Residual (ppm)	2011	4	4.0	0.5	0.2-0.8	yes	Water additive to control microbes

Regulated Substances Measured in the Distribution System — Camp Mohave

Substance (units)	Year Sampled	MCLG/MRDLG	MCL/MRDL	Annual Average	Range of Detections	Compliance Achieved	Typical Source
TTHMs [Total trihalomethanes] (ppb)	2011	N/A ⁴	80	76	73.6-79	yes	By-product of drinking water disinfection
HAA ₅ (ppb)	2011	N/A ⁴	60	11.3	4.3-16	yes	By-product of drinking water disinfection
Chlorine Residual (ppm)	2011	4	4.0	0.3	0.1-0.5	yes	Water additive to control microbes

Regulated Substances Measured in the Distribution System — Lake Mohave Highlands

Substance (units)	Year Sampled	MCLG/MRDLG	MCL/MRDL	Annual Average	Range of Detections	Compliance Achieved	Typical Source
TTHMs [Total trihalomethanes] (ppb)	2011	N/A ⁴	80	19.8	19.8	yes	By-product of drinking water disinfection
HAA ₅ (ppb)	2011	N/A ⁴	60	1.6	1.6	yes	By-product of drinking water disinfection
Chlorine Residual (ppm)	2011	4	4.0	0.3	0.2-0.6	yes	Water additive to control microbes

WHAT'S IN YOUR WATER

Regulated Substances Measured in the Distribution System — Rio Vista Ranches

Substance (units)	Year Sampled	MCLG/MRDLG	MCL/MRDL	Annual Average	Range of Detections	Compliance Achieved	Typical Source
TTHMs [Total trihalomethanes] (ppb)	2011	N/A ⁴	80	8.8	8.8	yes	By-product of drinking water disinfection
HAA ₅ (ppb)	2011	N/A ⁴	60	2.9	2.9	yes	By-product of drinking water disinfection
Chlorine Residual (ppm)	2011	4	4.0	0.3	0.1-0.5	yes	Water additive to control microbes

Tap Water Samples: Lead and Copper Results — Desert Foothills/Laughlin Ranch

Substance (units)	Year Sampled	MCLG	Action Level	# of Samples	90th Percentile	# of Samples Above Action Level	Typical Sources
Lead (ppb)	2010	0	15	10	2	0	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2010	1.3	1.3	10	0.07	0	Corrosion of household plumbing systems; erosion of natural deposits

Tap Water Samples: Lead and Copper Results — Camp Mohave

Substance (units)	Year Sampled	MCLG	Action Level	# of Samples	90th Percentile	# of Samples Above Action Level	Typical Sources
Lead (ppb)	2010	0	15	5	9	0	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2010	1.3	1.3	5	0.088	0	Corrosion of household plumbing systems; erosion of natural deposits

WHAT'S IN YOUR WATER

Tap Water Samples: Lead and Copper Results — Lake Mohave Highlands

Substance (units)	Year Sampled	MCLG	Action Level	# of Samples	90th Percentile	# of Samples Above Action Level	Typical Sources
Lead (ppb)	2010	0	15	10	4	0	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2010	1.3	1.3	10	0.143	0	Corrosion of household plumbing systems; erosion of natural deposits

Tap Water Samples: Lead and Copper Results — Rio Vista Ranches

Substance (units)	Year Sampled	MCLG	Action Level	# of Samples	90th Percentile	# of Samples Above Action Level	Typical Sources
Lead (ppb)	2010	0	15	5	3	0	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	2010	1.3	1.3	5	0.176	0	Corrosion of household plumbing systems; erosion of natural deposits

Unregulated Substances Measured on the Water Leaving the Treatment Facility — Desert Foothills/Laughlin Ranch

Substance (units)	Year Sampled	Range of Detections	Typical Source
Total Hardness (grains/gal)	2011	8	Natural calcium/magnesium content
Sulfate (ppm)	2011	130.6	Natural erosion
Chloride (ppm)	2011	53.2	Natural erosion
Total Dissolved Solids (ppm)	2011	446	Natural erosion



WHAT'S IN YOUR WATER

Unregulated Substances Measured on the Water Leaving the Treatment Facility — Camp Mohave

Substance (units)	Year Sampled	Range of Detections	Typical Source
Total Hardness (grains/gal)	2011	52	Natural calcium/magnesium content
Sulfate (ppm)	2011	922	Natural erosion
Chloride (ppm)	2011	299	Natural erosion
Total Dissolved Solids (ppm)	2011	2094	Natural erosion
Manganese (ppm)	2011	0.17	Natural erosion

Unregulated Substances Measured on the Water Leaving the Treatment Facility — Lake Mohave Highlands

Substance (units)	Year Sampled	Range of Detections	Typical Source
Total Hardness (grains/gal)	2011	21	Natural calcium/magnesium content
Sulfate (ppm)	2011	141.6	Natural erosion
Chloride (ppm)	2011	302.5	Natural erosion
Total Dissolved Solids (ppm)	2011	810	Natural erosion

WHAT'S IN YOUR WATER

Unregulated Substances Measured on the Water Leaving the Treatment Facility — Rio Vista Ranches

Substance (units)	Year Sampled	Range of Detections	Typical Source
Sodium (ppm)	2010	200-630	Natural erosion

Year Sampled: The state requires us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

¹Arsenic: While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. EPA 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.

²Elevated Fluoride Levels detected: This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children who drink water containing more than 2 milligrams per liter (mg/L) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis), the permanent teeth. This problem occurs only in the developing teeth, before they erupt from the gums. Children under nine years of age should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water. Drinking water containing more than 4mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4mg/L of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2mg/L because of the cosmetic dental problem. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-867-3435 or the Arizona Water Quality Association at 480-947-9850. Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail. For more information about your drinking water, please contact our Customer Care Center at 1-888-383-0834 or visit our website at epcor.com.

³Nitrate: 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 you should seek advice from your healthcare provider.

⁴TTHM/HAA₅: Although there is no MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants: Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L), chloroform (0.07 mg/L), Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.3 mg/L). Monochloroacetic acid, bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.

Additional monitoring

In addition to the parameters listed in this table, other parameters were monitored, including regulated pesticides, herbicides, petroleum by-products and metals. None of those parameters were detected in the water.

If you have any questions about this report or your drinking water, please call our **Customer Care Center at 1-800-383-0834**.