
Big Park Water Company

2010 Annual Drinking Water Report

June 2011

We are pleased to present this year's Annual Drinking Water Report for **2010**. The United States Environmental Protection Agency (EPA) requires that all public water systems in the United States provide this information to their customers annually. This report is designed to inform you about the quality of water and services we deliver to you every day. We are proud of the quality of water we provide.

Big Park Water Company's water source is groundwater drawn from wells at depths over 400 feet. The aquifer lies within the sandstone of the Supai formation and underlying Redwall and Martin Limestones. We have seven wells throughout the Village of Oak Creek. We vigilantly safeguard and monitor these water supplies and once again are pleased to report that our drinking water is safe. We are also pleased to let you know **that we do not add any chemicals to our water** (i.e. chlorine) for two basic reasons: (a) the quality of our water is excellent and (b) we keep our water distribution system in a clean condition free of any mineral sediment or coliform bacteria.

Notice of Source Water Assessment

In 2004, the Arizona Department of Environmental Quality completed a source Water Assessment for the seven wells used by Big Park Water Company. The Assessment reviewed the adjacent land uses that may pose a potential risk to the water sources. The risks include, but are not limited to, gas stations, landfills, dry cleaners, agriculture fields, waste water treatment plants, and mining facilities. Once ADEQ identified the adjacent land uses, they were ranked as to their potential to affect the water source. The result of the assessment was five wells had no adjacent land uses, while two wells had adjacent land uses that posed low risk.

All of the Company's wells are protected by system operations and management. Residents can help protect sources by properly disposing of hazardous household chemicals and limiting pesticide and fertilizer use.

The complete Assessment is available for inspection at the Arizona Department of Environmental Quality (ADEQ), 1110 West Washington Street, Phoenix, AZ 85007, between the hours of 8:00 AM and 5:00 PM, Monday through Friday. Electronic copies are available from ADEQ at dml@azdeq.gov. For more information, call Big Park Water Company at 928-284-2298, or visit the ADEQ's Source Water Assessment and Protection Unit website at www.azdeq.gov/environ/dw/swap.html.

Water Quality Data

Big Park Water Company routinely monitors for contaminants in your drinking water according to Federal and State laws. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic or organic chemicals and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It is important to remember that the presence of these contaminants does not necessarily pose a health risk. More information on contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791) or by visiting their website at www.epa.gov/safewater. Generally, the data presented in the water quality data table is from testing done between January 1 through December 31, 2010. Normally, the Arizona Department of Environmental Quality allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. We are reporting that your drinking water meets or exceeds all Federal and State requirements with the exception of arsenic. We have learned through our monitoring that some contaminants have been detected and are reported in the following tables. The Environmental Protection Agency has determined that your water is safe at these levels.

Contaminant	Violation Y/N	Level Detected	Range of Detection	Sample Date	Unit Measurement	MCLG	MCL	Likely Source of Contamination
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Microbiological Contaminants

Total Coliform Bacteria	Y	2 Occurrences	N/A	2010		0	Presence of coliform bacteria in 5% of monthly samples	Naturally present in the environment.
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Radioactive Contaminants

Gross Alpha	N		1.6 - 2.9	2009	pCi/L	0	15	Erosion of natural deposits.
Radium 228	N	<0.4		2009	pCi/L	0	5	Erosion of natural deposits.

Inorganic Contaminants

Arsenic	Y		<0.0010 -0.0401	2010	ppm	N/A	0.010	Erosion of natural deposits; Runoff from orchards; runoff from glass and electronics production wastes.
Barium	N	<0.40		2009	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Chromium	N	<0.020		2009	ppm	.1	0.1	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride	N	<0.80		2009	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate	N		0.16 – 1.2	2010	mg/L	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.

Antimony	N	<0.001		2009	ppm	.006	0.006	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder.
Asbestos	N	<0.2		2006	mfl	7	7	Decay of asbestos cement water mains; erosion of natural deposits.
Beryllium	N	<0.001		2009	ppm	.004	0.004	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries.
Cadmium	N	<.0010		2009	ppm	.005	0.005	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints.

Contaminant	Violation Y/N	Level Detected	Range of Detection	Sample Date	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Copper	N		0.06 - 0.32	2009	mg/L	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead	N		<.0010 - .0041	2009	mg/L	0	0.015	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Cyanide	N	<0.04		2009	ppm	.2	0.2	Discharge from steel/metal factories; discharge from plastic and fertilizer factories.
Mercury (inorganic)	N	<.0004		2009	ppm	.002	0.002	Erosion of natural deposits; Discharge from refineries and factories; runoff from landfills; runoff from cropland.
Nitrite (as Nitrogen)	N	<0.1		2009	mg/L	1	1	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Selenium	N	<0.010		2009	ppm	.05	0.05	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Thallium	N	<0.001		2009	ppm	.002	0.002	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories.

GENERAL INFORMATION ABOUT YOUR DRINKING WATER

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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791) or by visiting their website at www.epa.gov/safewater.

Violations

The following violations were ongoing in the calendar year 2010.

Type/Description	Compliance Period
Coliform	February 2010, May 2010
Arsenic	January 2010 – December 2010

PUBLIC NOTICE

Our water system violated a drinking water standard in 2010. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and what we are doing to correct this situation.

We routinely monitor our water for the presence of contaminants. Test results we received show that our system exceeds the standard or maximum contaminant level (MCL) for arsenic. The new standard for arsenic is 10 ppb (parts per billion). The average level of arsenic over the last year has been 18.67 ppb.

You do not need to use an alternative water supply; i.e. bottled water. However, if you have specific health concerns, consult your doctor.

This is not an immediate risk. If it had been, you would have been notified immediately. For all these years, our drinking water has had the same level of arsenic content. The only difference is that the Federal government changed the limits of arsenic in the water from 50 ppb to 10 ppb. However, the mandatory statement from ADEQ which we are required to print is as follows: "Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer."

For several years, we have informed our customers about issues associated with arsenic. During 2010, we have been operating three arsenic removal plants at three of our wells with a capacity of 907,200 gallons per day, which represents an average 111% of our average daily production. Some of our customers' water will have arsenic levels under the MCL standard available at their tap and the remaining customers will have arsenic levels around the present average. The remaining two wells are under construction for installation of Arsenic Treatment Equipment and will come online in 2011.

We can assure you that we are working diligently and systematically to meet the new arsenic requirements of EPA/ADEQ.

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, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by Big Park Water Company

State Water System ID#: 13-012

Date Distributed: 07/01/2011

Terms and Definitions

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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.

Maximum Contaminant Level Goal - The "Goal" (MCLG) is 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.

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

